

**OLYMPUS®**

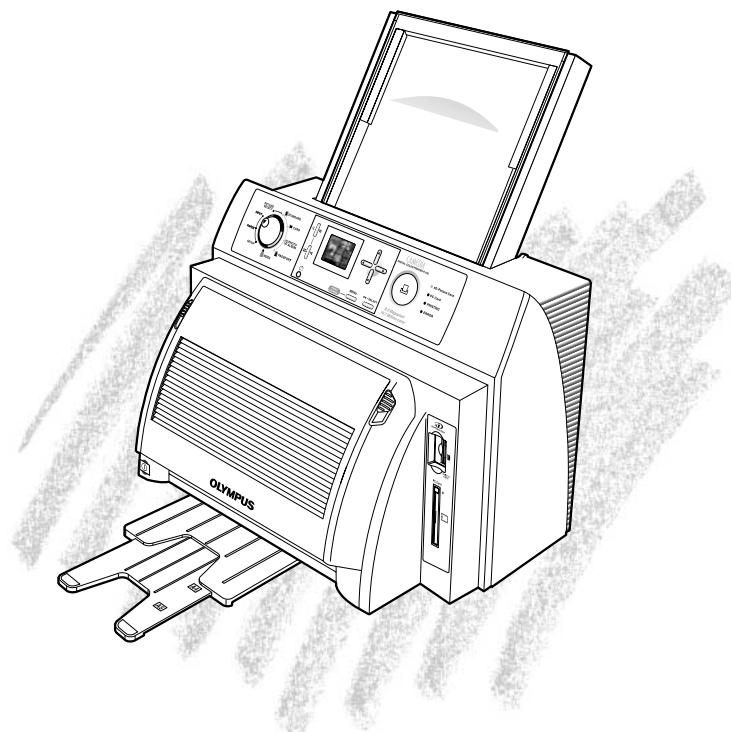
**CAMEDIA**

DIGITAL COLOR PRINTER

**ENGLISH**

**P-440**

**REFERENCE MANUAL**



# Introduction

Thank you for purchasing this OLYMPUS P-440 digital color printer. Read this manual carefully prior to use to ensure correct use of this product.

## About this Reference Manual

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## Reading this Manual

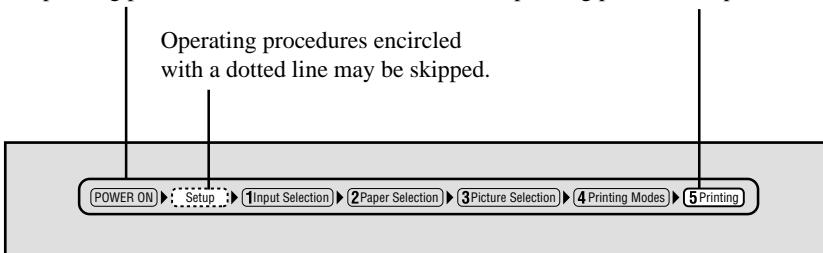
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This manual provides an explanation of the functions, operating procedures and various settings of this printer. Information on items of importance which are related to potential mechanical or operational problems are indicated with a “ **Caution**” warning, while information that will be convenient or beneficial for you to know when using the product are indicated under the heading of “ **Tip**”.

Indicates the operating procedure.

Operating procedure explained on this page.

Operating procedures encircled with a dotted line may be skipped.



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# For Safe Use

## ●Handling Precautions

### When moisture has condensed in the printer

The formation of water droplets inside the printer is referred to as condensation. Condensation occurs in the following situations.

- When the room in which the printer is located is heated rapidly
- When cold air (from an air-conditioner, etc.) blows directly onto the printer
- When the printer is moved from a location of low humidity to a location of high humidity

When moisture has condensed in the printer, moisture will adhere to the paper, deteriorating print quality or causing paper jams. When moisture has condensed or is likely to condense, leave the printer on and wait until there is no possibility for condensation to occur.

### Do not use solvents such as paint thinner or benzene when cleaning

Spraying the printer with insecticide or wiping with paint thinner or benzene may deteriorate or discolor the printer cabinet. When the printer cabinet has become dirty, wipe with a soft cloth. When soiling is particularly heavy, dampen a soft cloth with water or neutral detergent diluted with water, and wipe off the dirt after wringing the cloth out firmly.

### Do not allow the printer cabinet to be in contact with rubber or vinyl products for an extended period of time. This can cause discoloration or peeling of the coating

Extended contact with rubber, vinyl or plastic products can cause discoloring or peeling of the coating.

### Operate the printer at least once every six months

Not operating the printer for a long period of time can impair printer function. Operate the printer at least once every six months.

### Transporting when Moving, etc.

When transporting the printer, place the printer in the packaging materials and container in which it was packaged. When these are no longer available, package the printer with sufficient cushioning materials so that it is able to withstand shocks and impacts during transport. Remove the paper cassette and ink cassette from the printer before transporting.

# Identifying the Parts

## ●Printer Body

### Operation panel

This is used when printing by inserting a card (xD-Picture Card/PC card) directly into the printer. (Refer to the section on the "Operation Panel" on page 7 for further details.)

### Paper cassette compartment lid

### Dust cover

The dust cover is opened when the paper cassette is inserted.

### Cover eject lever

### Printer cover

This is opened when installing or replacing the ink cassette.

### Power (ON/OFF) switch

### Paper output tray

This is pulled out when printing.

### Paper discharge opening

Paper is discharged from this opening after printing.

### PC card slot

This slot is for inserting PC cards complying with PC standard ATA specifications (PCMCIA). Type II PC cards can be used. Use a PC card adapter or similar device when printing SmartMedia, CompactFlash or Memory Stick data.

### VIDEO OUT jack

This jack is used to connect the printer to a VIDEO IN port on a TV monitor.

### USB connector

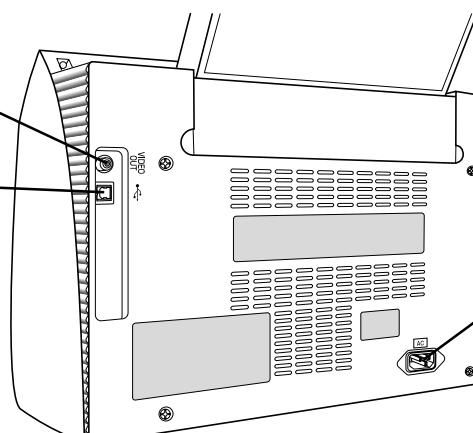
This connector is used to connect a USB cable from a PC.

### xD-Picture Card slot

xD-Picture Card containing recorded pictures is inserted into this slot when printing directly from an xD-Picture Card.

### PC card eject button

This button is pressed to remove the PC card.



## ●Operation Panel

### MODE SELECTOR DIAL

#### PICTURE SELECT:

Selects the picture to be printed.

#### INPUT:

Designates the method of data input.

#### PAPER:

Designates the paper size used for printing.

#### SETUP:

Printer adjustment background registration, etc.

#### STANDARD:

Used for standard printing.

#### CARD:

Used for printing on postcards, etc.

#### PHOTO-ALBUM:

Used for photo-album printing.

#### PASSPORT:

Used for passport printing.

#### INDEX:

Used for index printing.

### ACCES INDICATORS

#### xD-Picture Card:

Lights when xD-Picture Card is designated with INPUT.

Flashes when a card is begin accessed.

#### PC Card:

Lights when PC Card is designated with INPUT.

Flashes when a card is begin accessed.

#### Printing:

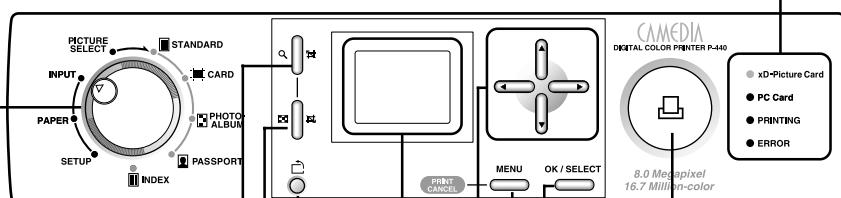
Flashes when data is being received or processed.

This lamp lights while the printer is printing.

#### Error:

Lights when some type of problem has occurred during printing.

A description of the error is displayed on the LCD panel.



#### ENLARGE Button

This button is used to enlarge pictures as well as when adjusting the trimming size.

#### INDEX Button

This button is used to display a thumbnail index of pictures as well as when adjusting the trimming size.

#### ROTATE Button

This button is used to rotate pictures for printing.

#### LCD Panel

This panel provides a color preview (display) of pictures that you want to print, menu options, etc.

#### Arrow Buttons

These are used to select detailed parameters and settings for each mode.

#### PRINT Button

This is pressed when starting printing.

#### OK/SELECT Button

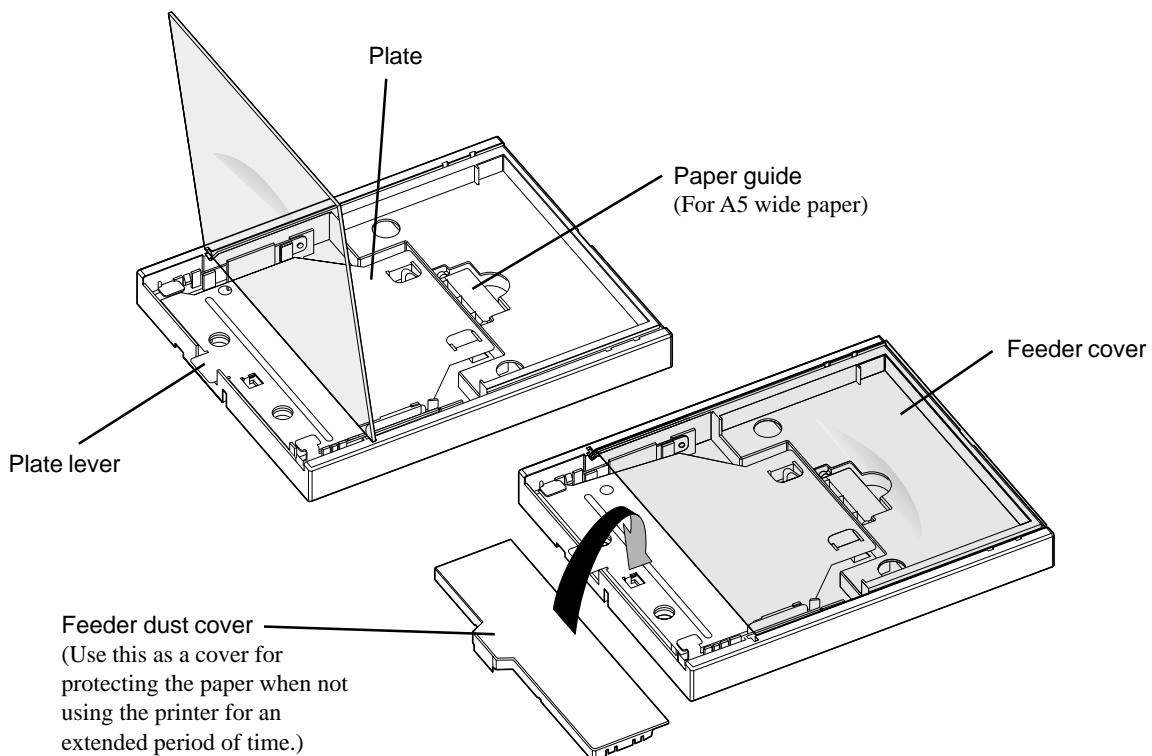
This button is used to make detailed settings for each mode or switching select on and off when printing a single picture.

#### MENU/PRINT Cancel Button

These buttons are used to display detailed parameters for each mode and to cancel printing.

## ●Paper Cassette

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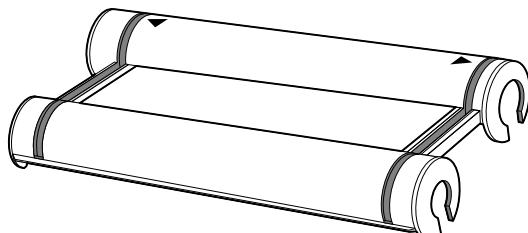
### Caution

- A spacer for protection during transport is attached inside the paper cassette when the printer is shipped from the factory. Remove this spacer when using the printer.
- The feeder dust cover is attached to the back of the paper cassette when the printer is shipped from the factory. Do not lose this feeder dust cover since it is used, for example, when not using the printer for an extended period of time.

## ●Ink Cassette (Ribbon Holder)

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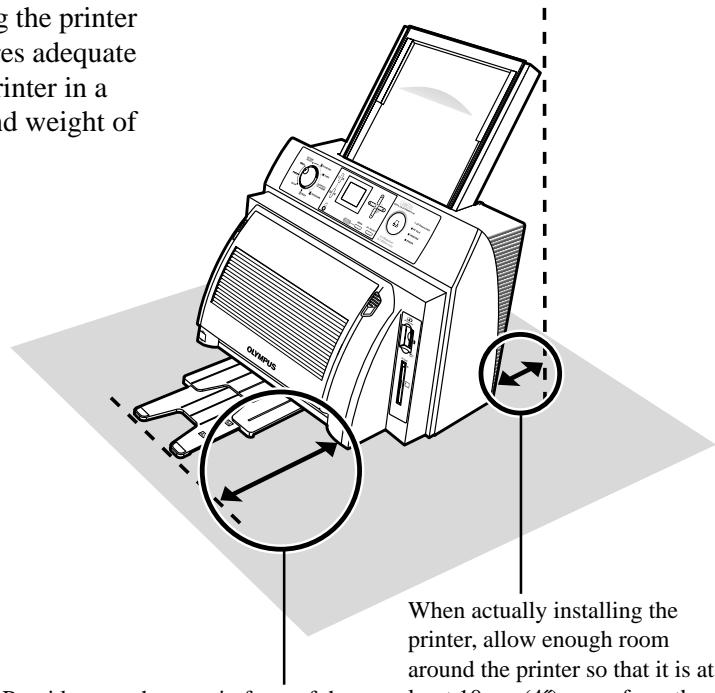
Ink Cassette (Ribbon Holder)



# Printer Installation

## ●Printer Installation Site

Provide a location for installing the printer that is flat and stable and ensures adequate installation space. Install the printer in a location that is able to withstand weight of approximately 15 kg (30 lbs).



Provide enough space in front of the printer so that the paper output tray can be pulled out.

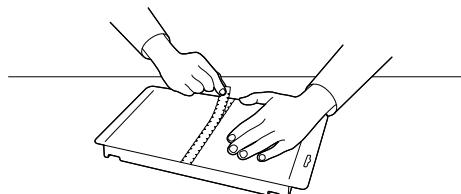
When actually installing the printer, allow enough room around the printer so that it is at least 10 cm (4") away from the wall.

## ●Installing the Ink Ribbon

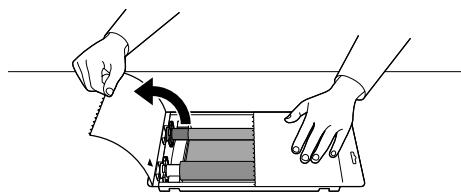
### Caution

- P-400 ink ribbon P-RBN cannot be used in this printer for printing.

- 1 Tear off the center strip on the back of the ink ribbon package along the tear line shown.



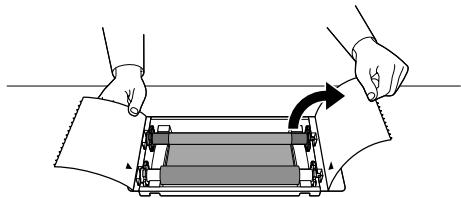
- 2 Open one of the flaps.



### Caution

- When cutting open the cover sheet and tearing back the flaps, do not remove the flaps completely from the package. Removal of the flaps will prevent you from determining the installation direction of the ink cassette (ribbon holder).

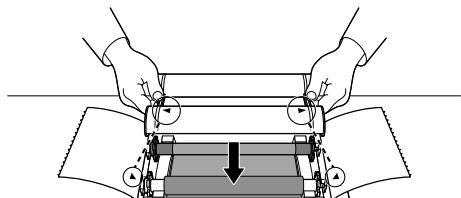
**3** Open the flap on the opposite side.



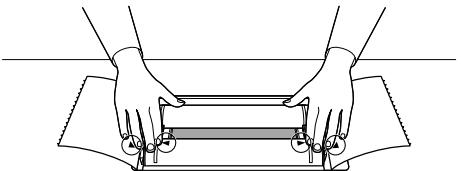
 **Caution**

- Do not allow the ink ribbon package to become deformed and do not take out the ink ribbon directly with your hands.

**4** Align the installation direction marks (►•◀) on the flaps on the ink ribbon package and ink cassette (ribbon holder).



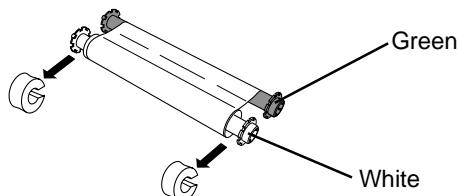
**5** Attach the ink ribbon to the ink cassette.  
(Press the ink cassette onto the ink ribbon until all four locations snap into place.)



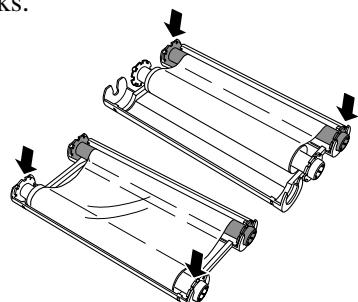
 **Tip**

- The procedure for installing the A6 wide-size passport ink ribbon differs from that of ink ribbon used for ordinary printing. Follow steps 1 through 3 previously stated, but replace steps 4 and 5 with the following procedure. Then, continue with steps 6 through 11.

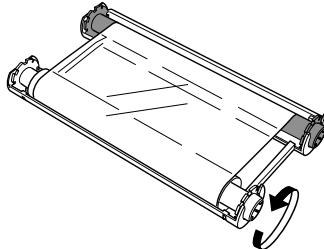
Take out the ink ribbon from the ink ribbon package and remove the stoppers from the bobbin of the ink ribbon.



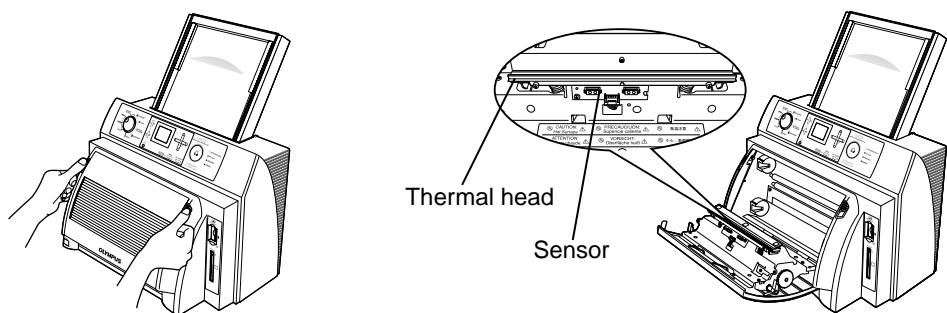
Attach the bobbin of the ink ribbon to the ink cassette (ribbon holder) until it clicks.



**6** Turn the bobbin in the direction indicated by the arrow to take in the slack of the ink ribbon.



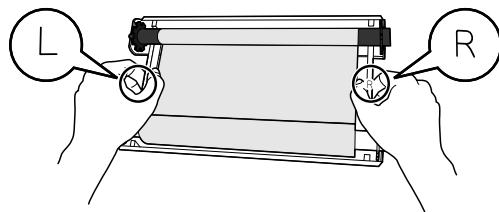
**7** Lower the eject levers on both sides of the printer cover and open the printer cover.



 **Caution**

- Do not touch the inside of the printer when the printer cover has been opened.
- Never touch the thermal head. This can result in burns or a malfunction.
- The thermal head sensor is extremely sensitive to static electricity. Never touch the thermal head sensor since this has the risk of causing a malfunction.

**8** Hold onto the ink cassette with both hands while checking the right (R) and left (L) sides of the ink cassette.



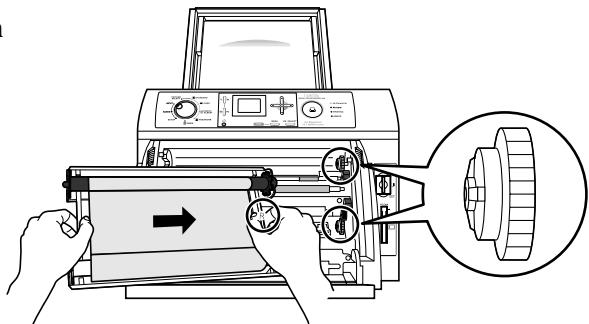
 **Caution**

- Be careful not to touch the ink ribbon directly with your fingers.

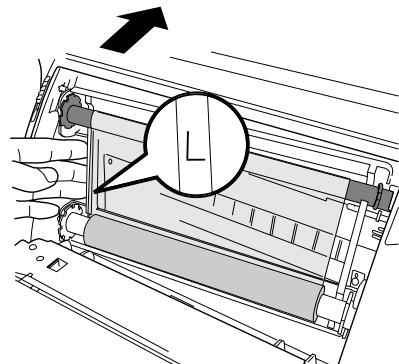
 **Tip**

- Adjust the upper and lower bobbins of the attached ink ribbon so that the ink ribbon is taut and free of twisting.

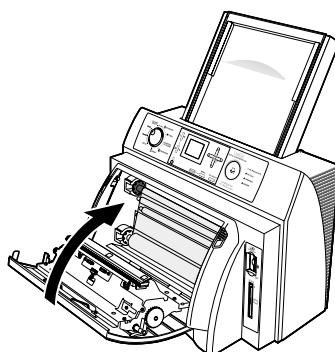
**9** Install the ink cassette in the printer. Push the right side (R) of the ink cassette onto the right wheels of the printer.



**10** Push in the left (L) side. (Firmly push all the way into the printer.)

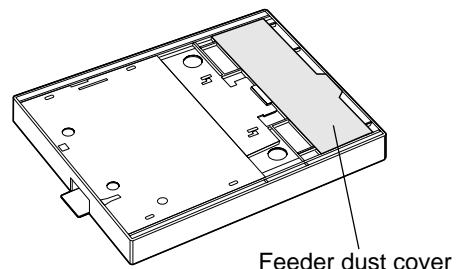


**11** Close the printer cover. (Close the printer cover completely until it snaps closed.)



## ●Installing the Paper Cassette

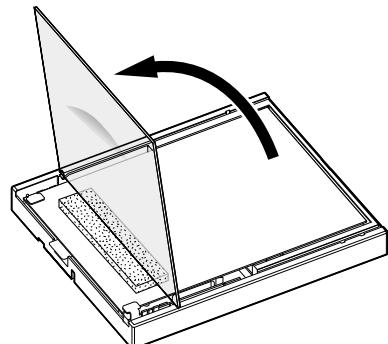
**1** The feeder dust cover is attached to the back of the paper cassette.



### Tip

- The feeder dust cover is taped to the paper cassette when shipped from the factory. Since this feeder dust cover is used when not using the printer for an extended period of time, make sure not to lose it.

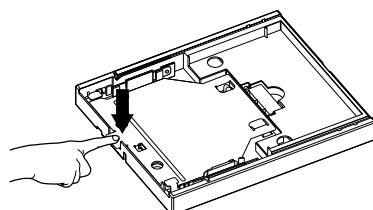
**2** Open the feeder cover of the paper cassette.



**3** Remove the plate lever protective cushion and protective spacer installed for protection of the paper cassette during transport.

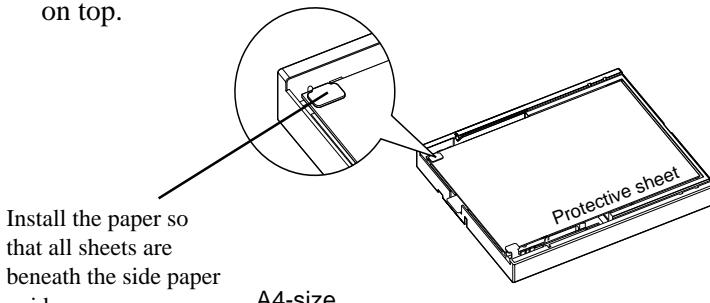


**4** Push down on the plate lever of the paper cassette until a clicking sound is heard.



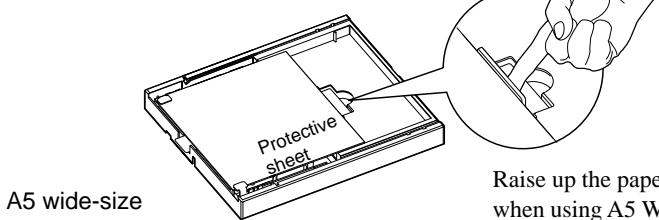
5

Insert print paper with the protective sheet on top.



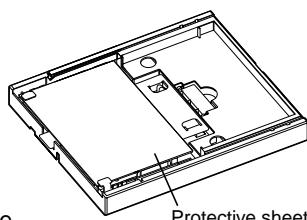
Install the paper so that all sheets are beneath the side paper guides.

A4-size



## A5 wide-size

Raise up the paper guide  
when using A5 Wide paper.



## A6 wide-size

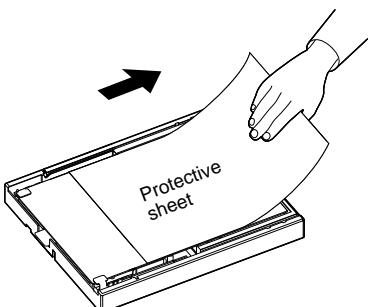
## Protective sheet



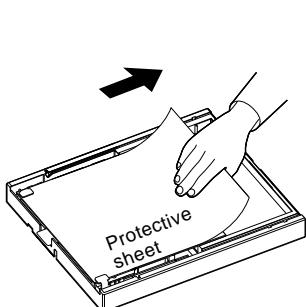
- Make sure to insert the paper with the correct side facing up.
- Be careful not to touch the paper directly with your hands other than the protective sheet.

6

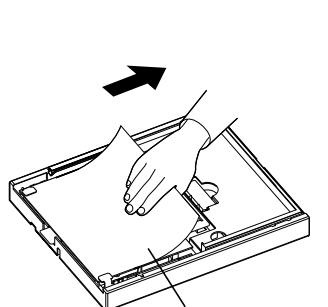
Pull out the protective sheet.



A4-size

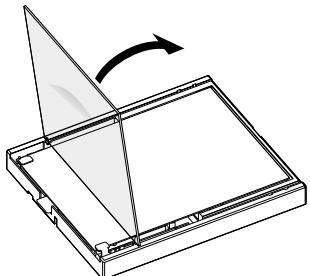


## A5 wide-size

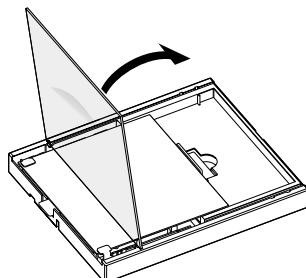


### Protective sheet

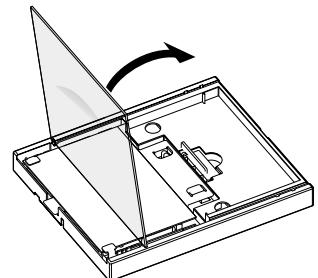
**7** Close the feeder cover of the paper cassette.



A4-size

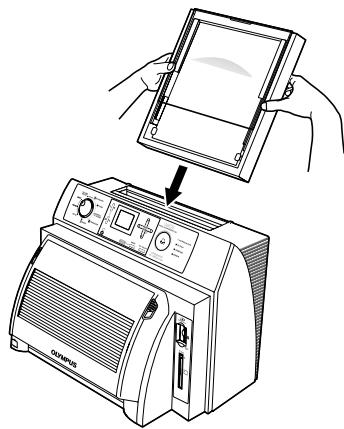
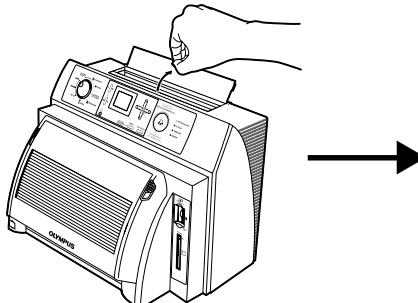


A5 wide-size



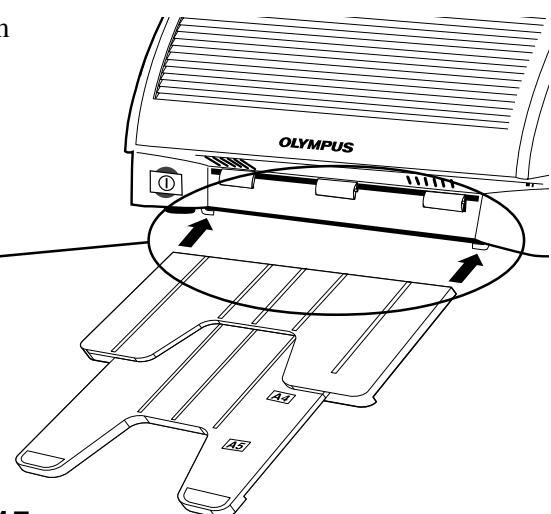
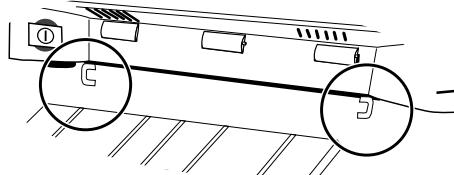
A6 wide-size

**8** Open the dust cover in the top of the printer and completely insert the paper cassette.



## ●Attaching the Paper Output Tray

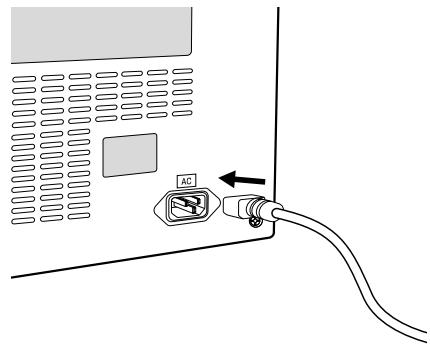
Insert the paper output tray into the bottom of the printer by following the guides.



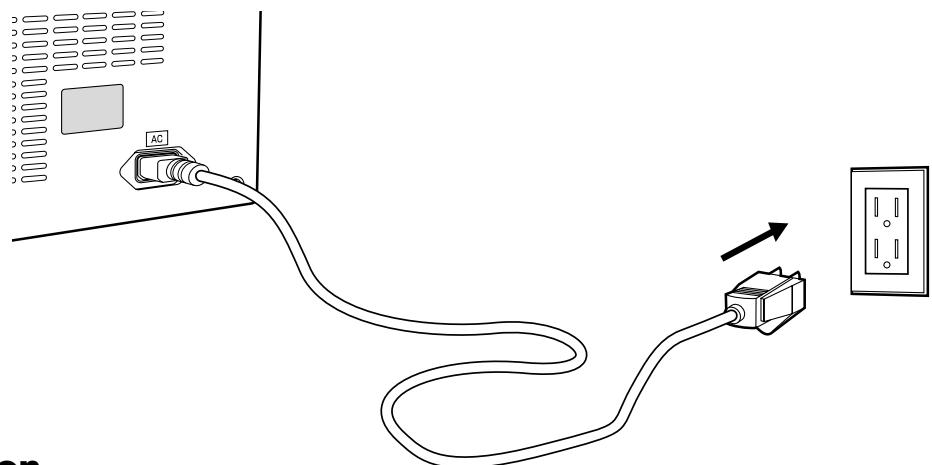
## ●Connecting the Power Cord and Turning on the Power Switch

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**1** Plug in the power cord to the printer.



**2** Plug in the power cord to an outlet.



### Caution

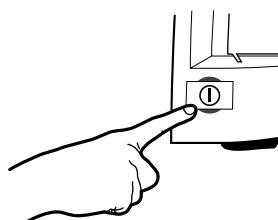
- Always make sure to use a stationary power outlet such as a wall outlet.

### Tip

- It is recommended to connect the ground wire to a grounded terminal.  
[For customers outside of North America]  
US and Canadian plugs do not have a separate ground wire.

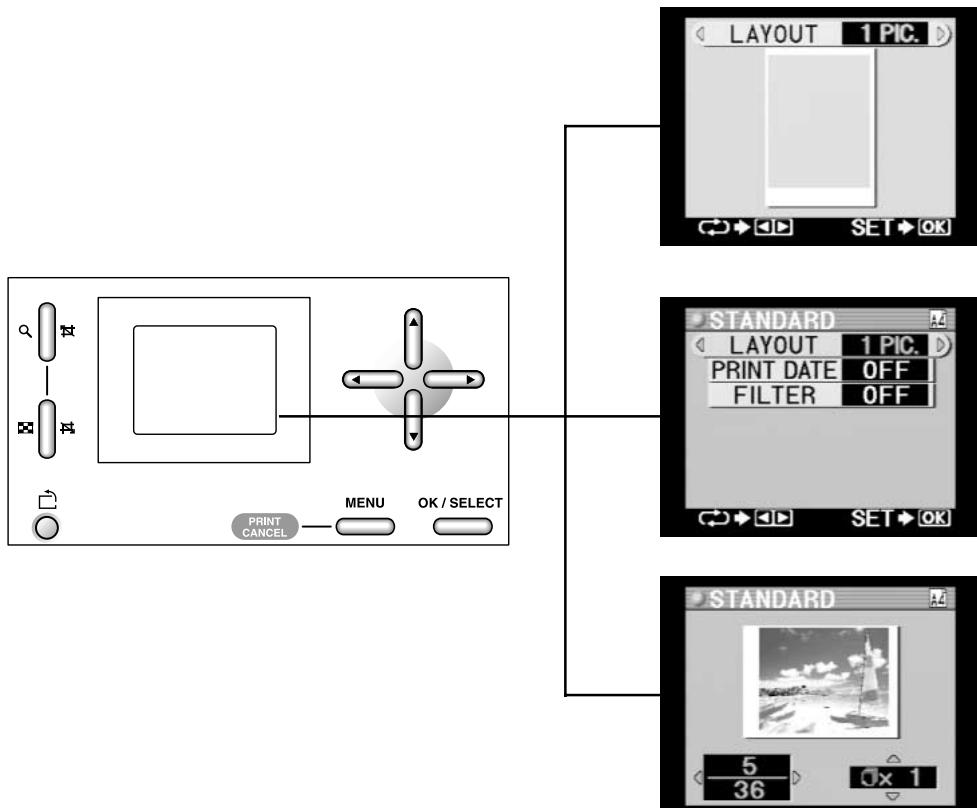
**3** Turn on the power switch of the printer.

This completes printer preparations.



# LCD Panel

The LCD panel is used to display image data for checking the layout for each of the print modes and display menus and contents.



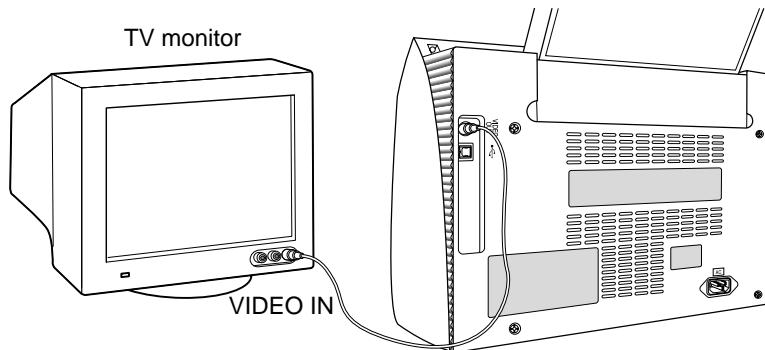
For information on adjusting the brightness of the LCD panel, refer to page 69.

# Connecting to a TV monitor

You can connect the printer to a TV monitor and view the same display on that TV as that on the LCD panel.

## <Connection procedure>

- 1 Use a off-the-self VIDEO cable to connect the VIDEO OUT jack on the printer to the VIDEO IN port on the TV monitor.



## <Viewing pictures>

- 1 Turn on the TV and set it to the video input mode.

For details of switching to video input, refer to your TV's instruction manual.

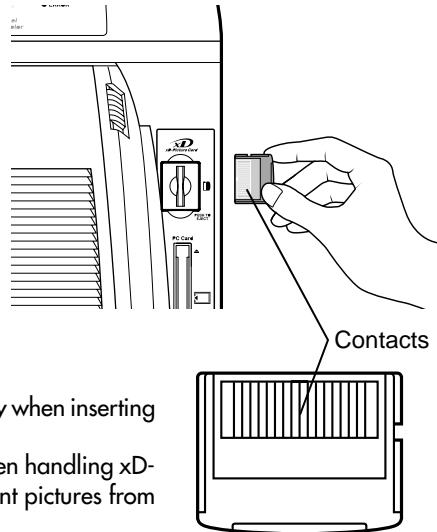
The content of the LCD panel is displayed on the TV monitor.

# Using xD-Picture Card

Pictures stored on xD-Picture Card can be printed directly by inserting the card into the xD-Picture Card slot in the printer.

## <Insertion>

Insert the xD-Picture Card into the xD-Picture Card slot.



### Caution

- Make sure the xD-Picture Card is aligned properly when inserting into the printer.
- Be careful not to damage or soil the contacts when handling xD-Picture Card. Soiling of the contacts may prevent pictures from being read.
- Do not apply excessive force to the xD-Picture Card.
- Avoid using in environments susceptible to the occurrence of strong static electricity or electrical noise.
- Inserting xD-Picture Card that has been subjected to static electricity into the printer can cause an error in operation.
- The printer may not operate properly in the case of pictures that have been edited or processed with a PC.
- Do not insert the xD-Picture Card into a PC card slot by mistake. Doing so may cause a failure of the printer.

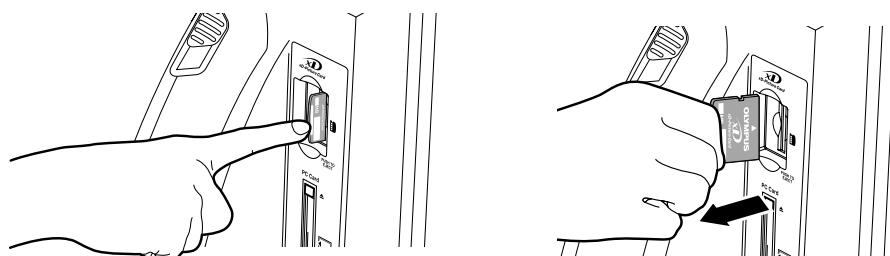
.....

## <Removal>

### Caution

- Always make sure to check the access lamp on the operation panel before removing the xD-Picture Card. Never remove the xD-Picture Card while the access indicator is flashing. This can damage the data contained on the xD-Picture Card.
- Do not remove the xD-Picture Card during printing. Doing so may cause improper printing of the image.

Push the xD-Picture Card in until a click is heard then pull it completely out.

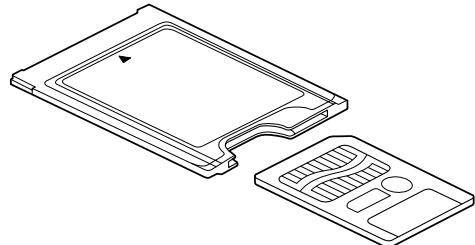


# Using a PC Card

Pictures stored on a SmartMedia card, Memory Stick or CompactFlash can be printed directly by using the appropriate PC Card adapter in the PC Card slot in the printer.

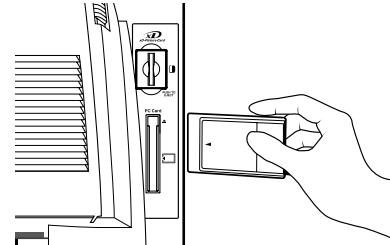
## <Insertion>

Insert the CompactFlash, Memory Stick or SmartMedia into the PC card adapter, then insert the PC adapter into the PC card slot.



### Caution

- The P-440 is compatible with PC Card Type II.
- Do not insert CompactFlash cards, Memory Stick or SmartMedia cards without the appropriate PC Card Adapter.
- Refer to the PC Card instruction manual when handling PC Cards.
- Be careful not to damage or soil the contacts when handling PC Cards.
- Avoid using in environments susceptible to the occurrence of strong static electricity or electrical noise.
- Inserting a PC Card that has been subjected to static electricity into the printer can cause an error in operation.
- The printer may not operate properly in the case of pictures that have been edited or processed with a PC.



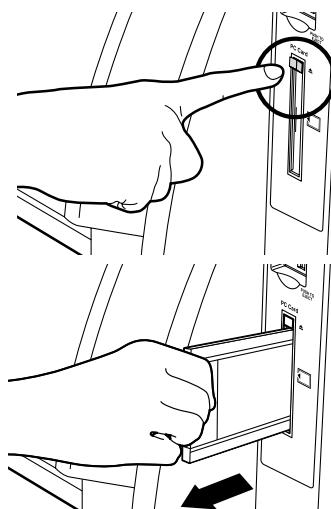
## <Removal>

### Caution

- Always make sure to check the access lamp on the operation panel before removing the PC card. Never remove the PC card while the access indicator is flashing. This can damage the data contained on the PC card.
- Do not remove the PC card during printing. Doing so may cause improper printing of the image.

Press the PC card eject button, then pull out the PC card.

Memory Stick is the registered trademark of the Sony Corporation. CompactFlash is the registered trademark of the U.S. SanDisk Corporation. Other system names and product names contained in this manual are generally the registered trademarks or trademarks of the respective developing manufacturer.



# Installing the Printer Driver

Install the printer driver provided according to the computer being used. Refer to the “Readme” file on the CD-ROM for information on the installation procedure.

## ●Operating Environment

---

### Windows

Compatible models: IBM PC/AT and compatibles

OS: Windows 98/Me/2000/XP (USB-compatible with PCs pre-installed with Windows 98/Me/2000/XP or models for which USB operation is guaranteed by the hardware manufacturer)

CPU: Pentium or higher

RAM size: 128 MB or more recommended

Hard disk space: Min. 128 MB

Interface: USB port

(Installation procedure: For Windows, refer to page 22.)

### Macintosh

OS: Mac OS 8.6 to Mac OS X (compatible with New Power Mac G3, G4/iMac/iBook/PowerBook G4)

Memory: 128 MB or more recommended

Hard disk space: Min. 128 MB

Interface: USB port

(Installation procedure: For Mac OS 8.6 to 9.2, refer to page 25.)

(Installation procedure: For Mac OS X[Ver. 10.1.2-10.1.5, 10.2-10.25], refer to page 28.)

### Caution

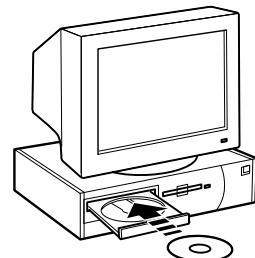
- Operation of this printer, the printer driver on a network is not guaranteed. In addition, use with commercially available printer buffers is also not guaranteed.

## ● Installation Procedure

## Windows98/Me/2000/XP

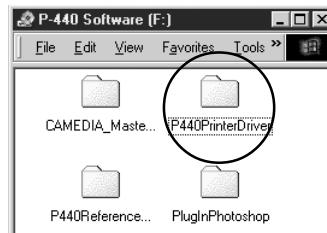
**1** Turn on the PC and start Windows.  
Do NOT connect the printer to the computer at this time.

**2** Insert the CD-ROM containing the P-440 printer driver into the PC.



### 3 Start up the Setup program.

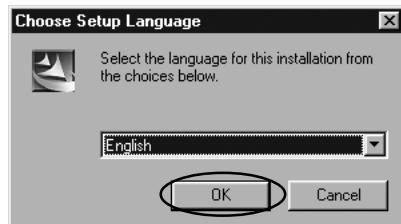
① From the CD-ROM, open the “P440PrinterDriver” folder.



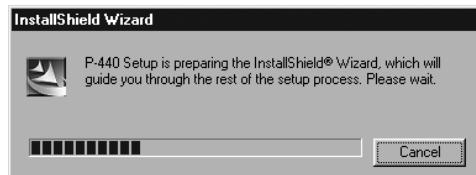
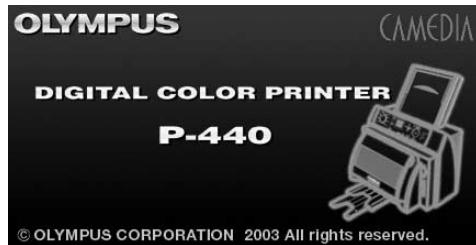
② Next, double-click on “Setup.exe”.



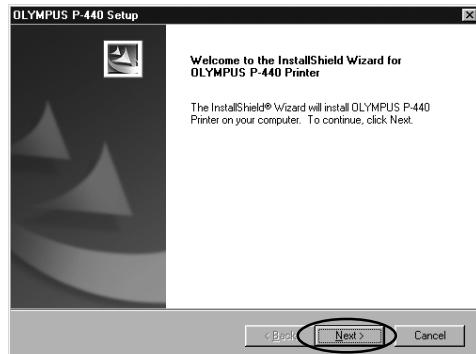
**4** Select the language that you want to use during setup and then click on the “OK” button.



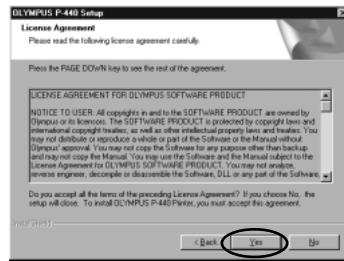
.....  
**5** The setup program is started and a series of windows are displayed.



.....  
**6** Click on the “Next” button.



**7** Read the license agreement and click “Yes” if you accept the terms of the agreement.



**8** Click on the “Finish” button.



**9** Turn on the printer, connect the printer to the computer.

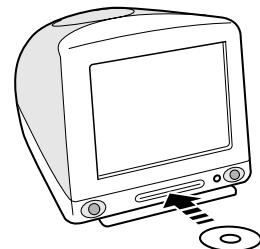
For information on the procedure to connect the printer to the computer, refer to page 31.

Required files are automatically installed.

This completes installation of the P-440 printer driver.

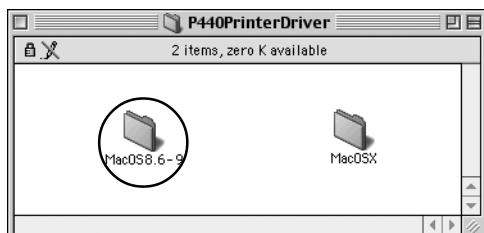
## Mac OS 8.6-9.2

**1** Start up the Macintosh and insert the CD-ROM containing the P-440 printer driver.



**2** Start up the install program.

① From the CD-ROM, open the “P440PrinterDriver” folder and then the “MacOS8.6-9” folder.



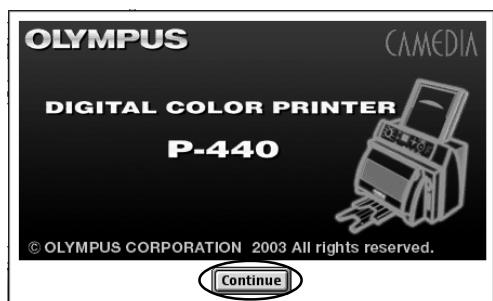
② Next, open the “English” folder and double-click on “Installer” icon.



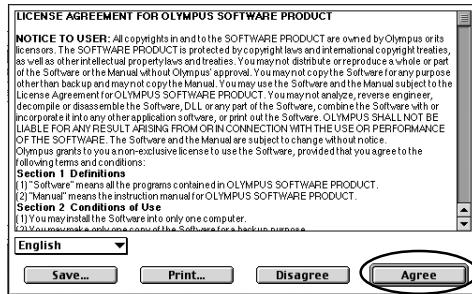
The install program is started.



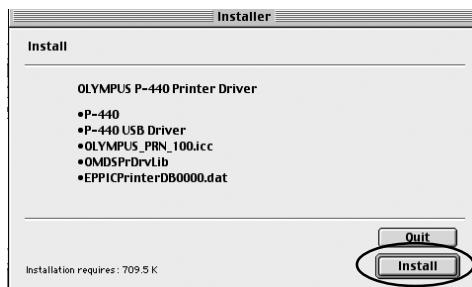
**3** Click on the “Continue” button.



**4** Read the license agreement and click “Agree” if you accept the terms of the agreement.



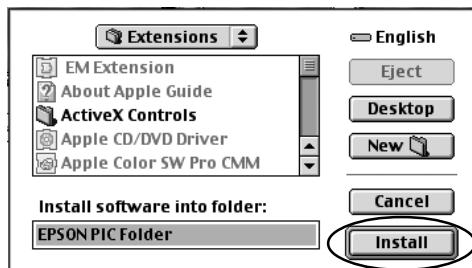
**5** Click on the “Install” button.



The printer driver is installed.

**6** Click on the “Install” button.

Do not change the folder into which the software is installed.

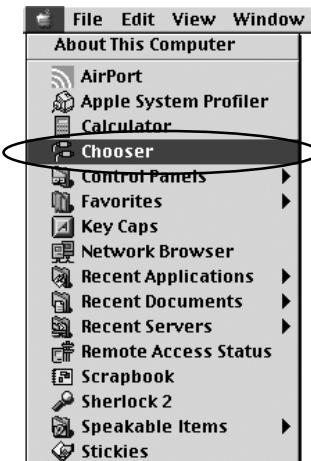


**7** Click on the “Quit” button.



## 8 Select “Chooser” from the Apple menu.

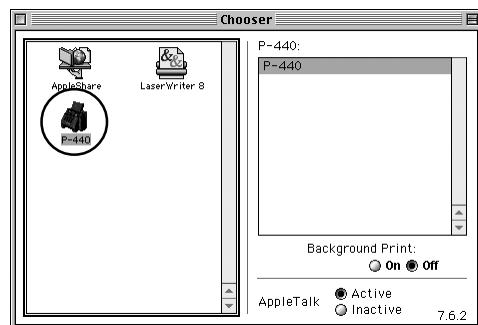
- ① First, turn on the P-440's power and make sure it is connected to a USB port on the Macintosh using the appropriate USB cable.
- ② Using the mode selector dial on the front of P-440, set the input to “USB”. After a few seconds, the P-440 should appear in the “Printer Select” list.



## 9 Click on the “P-440” driver icon in the left-hand window pane.

If multiple printer drivers are installed, the “P-440” icon may not appear in the Chooser. Please use the scroll bar to locate the “P-440” printer driver.

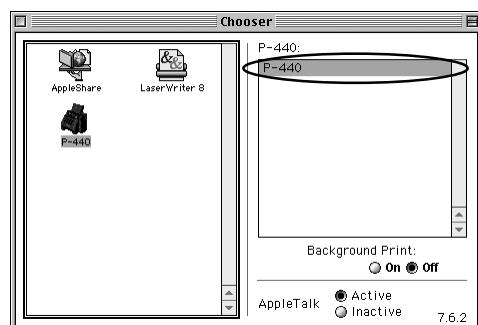
- It may be concealed within the window as a result of all of the printer driver icons being unable to be displayed. In this case, scroll the window with the scroll bar to display the concealed icons.



## 10 Select “P-440” in the “Printer Select” list and then click on the “box” on the upper left-hand corner to close the Chooser.

If the “P-440” is not displayed in the “Printer Select” list when the printer driver icon is clicked, check whether or not the USB cable is connected, the printer power is on, and whether or not the printer input is set to “USB”.

Other tasks can be performed with the Macintosh during printing when “On” is selected for “Background Print”. However, the print time may be longer than when this option is “Off”.



For information on the procedure to connect the printer to the computer, refer to page 31.

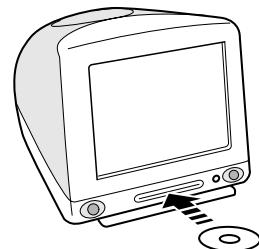
This completes installation of the P-440 printer driver.

## Mac OS X (version 10.1.2-10.2.5)

### Tip

- Installation of this driver requires the Administrator privilege.

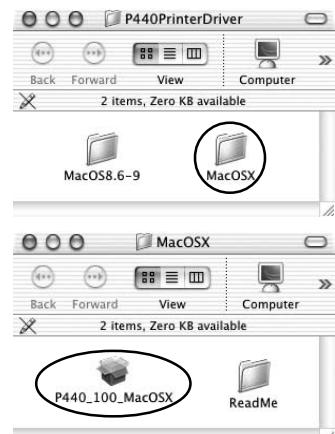
**1** Start the Macintosh and insert the CD-ROM containing the P-440 printer driver.



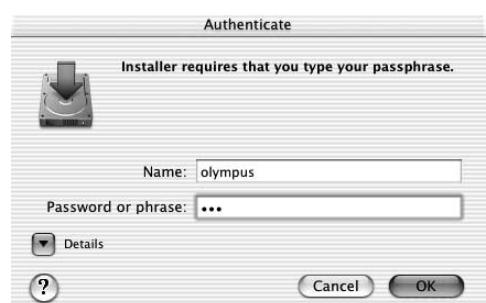
**2** Start up the install program.

- ① From the CD-ROM, open the “P440PrinterDriver” folder and then the “MacOSX” folder.
- ② Double-click on “P440\_100\_MacOSX”.

The install program is started.



**3** Follow the procedure of the installer to continue operation.



**4** After the installer finishes, start up “Print Center”.

① From the “Applications” folder, open the “Utilities” folder.



② Double-click the “Print center” icon. Print Center is started.

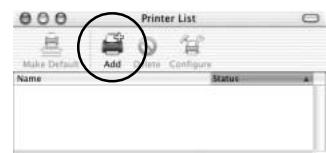


③ Turn on the P-440's power and make sure it is connected to a USB port on the Macintosh using the appropriate USB cable.  
For information on the procedure to connect the printer to the computer, refer to page 31.

④ Using the mode selector dial on the front of P-440, set the input to “USB”.

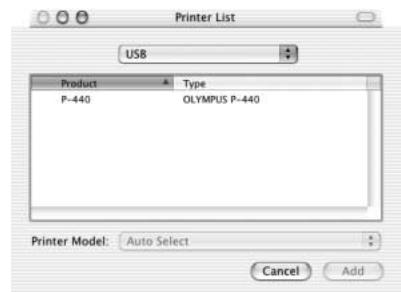


**5** Click on the “Add” button.



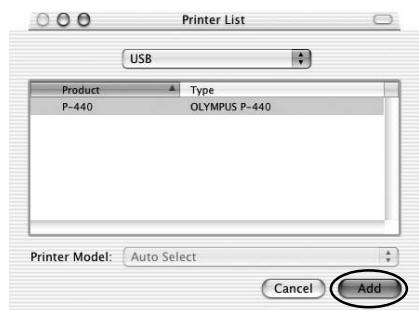
**6** Designate “USB” as destination of connection.

The “P-440” icon is displayed.



**7** Select “P-440” and click on the “Add” button.

This completes installation of the P-440 printer driver.



# Printing from a PC

The following provides an explanation of the procedure for printing from a PC. Refer to the “Readme” file in the CD-ROM for information on the printing procedure.

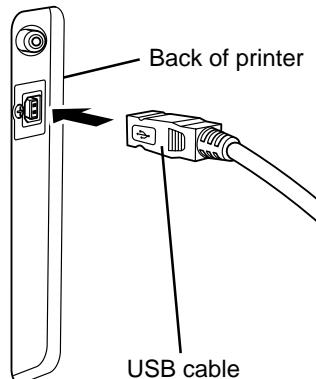
## Tip

- When using the P-440 with a PC, it is necessary to first install the printer driver (page 21) before connecting your P-440.

## ●Preparing the P-440 for Printing

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**1** After installing the P-440 driver, connect one end of a USB cable (sold separately) into a USB port on the computer and the other end into the USB connector on the back of the printer.



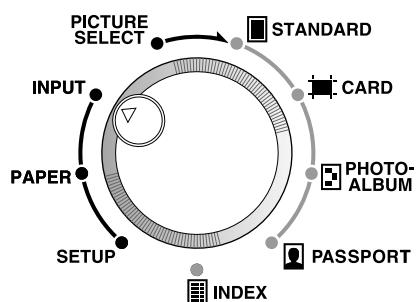
## Caution

- Only use a USB cable for connecting to the printer.
- Connect the printer directly to a computer.

## Tip

- Refer to the computer instruction manual for the procedure for making computer connections.

.....  
**2** Set the mode selector dial to the INPUT position.

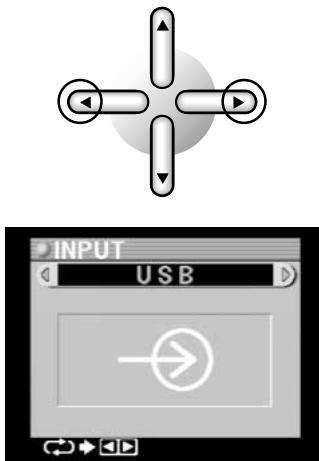


**3** Select “USB” with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



“USB” is displayed at the top of the LCD panel.



## 4 Make settings from a PC.

For Windows, refer to page 33.

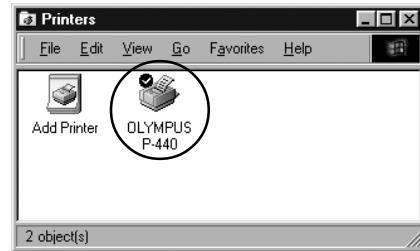
For Macintosh, refer to page 38.

## ●Setting Printer Settings from a PC

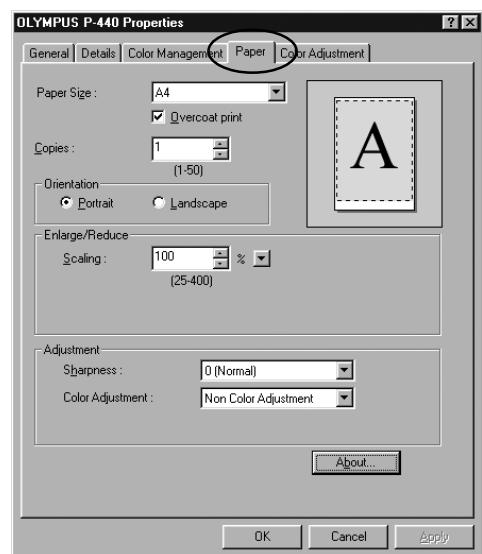
## When Using a Windows

- **Paper Setting**

1 Select “Control Panel” and then “Printers”. Right click on “OLYMPUS P-440” and display the properties.



2 Click on the “Paper” tab to set the paper.



Paper Size: Select the paper size (A4, A4 postcard, A5 WIDE, A6 WIDE) from the list box. (The printer is not compatible with A4L-size cards only when printing from a PC.)

Copies: Set the number of prints (1-50) either by key entry or using the arrow tool.

Orientation: Set the paper orientation by clicking the vertical or horizontal radio button.

Enlarge/Reduce: Set the print size (25-400%) either by key entry or by pressing on the up or down arrow button until the desired percentage is displayed.

Sharpness: Select sharpness correction (-5-5) from the list box.

Color Adjustment: Select the type of color adjustment that you want to make. Once you select the desired setting under "Driver", it will be possible to make the color adjustments in the "Color Adjustment" tab.

If you select "ICM", color adjustment will be performed based on the ICC profile. In Windows 2000/XP, a color adjusting method can be selected from Picture/Graphics/Match/Proof. To output a landscape image, select "Scene".

When you use Print Image Matching Plug-in for Adobe Photoshop, select "Non Color Correction".

About: Version information is displayed.

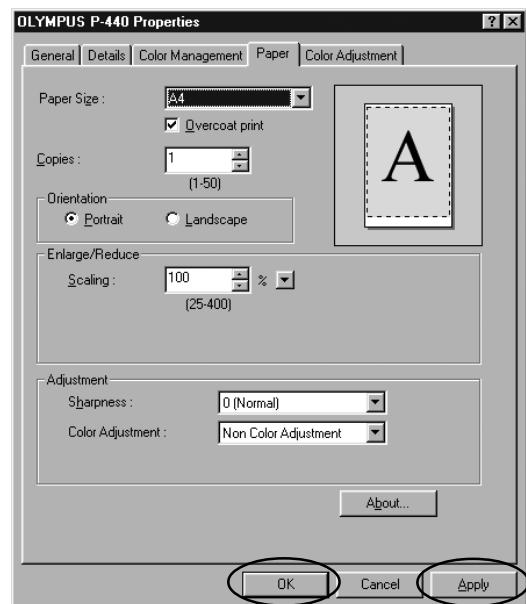
### Tip

- Two prints of the same picture are printed out for postcards. The number of prints can only be changed in units of 2 prints each.

3

Click on "Apply" then "OK".

The settings are enabled.



## • Color Adjustment using the “Driver” Setting

If you selected the “Driver” checkbox under “Color Adjustment” in the “Paper” tab, you will be able to use a preview display as you adjust the color here.

### Tip

- The color tone of the preview may differ from that of actual prints. The displayed color tone should only be used as a rough indication of color tone.

**1** Click on the “Color Adjustment” tab.

### Tip

- The “Color Adjustment” tab is only available when the “Driver” checkbox is selected under “Color Adjustment”.

**2** Adjust the color.

Gamma: Change the half-tone density (-5-5) of R, G and B, respectively, with the control bar or arrow tool. Clicking on “Same” allows R, G and B to be changed all at once.

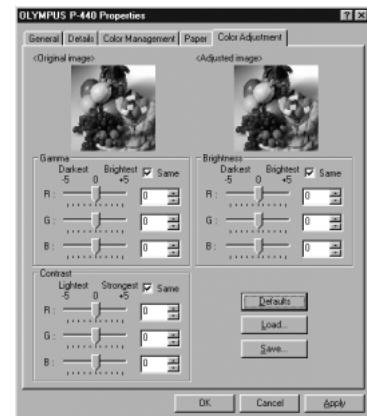
Brightness: Change the total picture density (-5-5) of R, G and B, respectively, with the control bar or arrow tool. Clicking on “Same” allows R, G and B to be changed all at once.

Contrast: Adjust the contrast (-5-5) of R, G and B, respectively, with the control bar or arrow tool. Clicking on “Same” allows R, G and B to be adjusted all at once.

Defaults: Returns the setting of each parameter to the initial setting.

Load: Load saved color adjustment values.

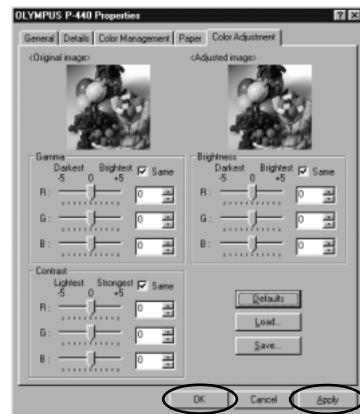
Save: Saves the set values.



### Tips

- The procedure for changing color adjustment from the printer and that for changing color adjustment from a PC are the same.
- Adjustments made using the driver override those made on the printer.

**3** Click on “Apply” or “OK”.



### **Tips**

- The same picture is printed out twice for postcards.
- During background printing, mouse and key operation may not be smooth or printing may take some time.

#### • **Color Adjustment using the “ICM” Setting**

Enables printing at a color that most closely resembles the color on your computer monitor.

Selection is possible among 4 types of renderings that are normally supported under Windows 2000/XP.

Picture: Most appropriate for photographs.

Graphics: Most appropriate for bar and pie graphs.

Match: For higher quality printing.

Proof: Most appropriate for logos.

### **Precautions Regarding the Printer Driver**

- 1) In the case of printing in A4 size, a minimum of 50 MB of available memory is required in the hard disk (excluding regions using the OS and applications) in order to prepare printing data.
- 2) When installing the printer driver, be sure to follow the installation procedure described in this manual to ensure proper installation.
- 3) If you remove the USB cable after the printer driver was installed, wait more than 5 seconds before connecting it again. Otherwise, the printer may not operate properly. When you turn off and on the printer or change the input selection, wait similarly.
- 4) Depending on the specifications or setting of the OS or PC, if processing has been interrupted while printing is in progress, the PRINTING lamp on the printer may continue flashing. At this time, temporarily turn off the printer power and then turn it back on again.
- 5) If the printer is turned off or the power cable is removed while printing is in progress, print data may remain in the print spooler. At this time, delete the remaining print data and then execute the next print job.
- 6) While “Please Wait” is displayed on the LCD panel of the printer, printing is not being performed. When the message disappears, printing will resume automatically.

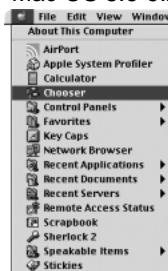
- 7) While data is transferred or printing is performed, be sure not to remove the USB cable, not to change the printer input selection, or not to turn off the printer power until printing is completed. Otherwise, abnormal printing may be caused.
- 8) If processing has been interrupted while printing is in progress (while the PRINTING lamp on the printer flashes or lights), temporarily turn off the printer power and then turn it back on again.
- 9) Do not delete print jobs in the spooler while transferring data. If you delete them inadvertently, temporarily turn off the printer power and then turn it back on.
- 10) Pure white portions of the image (R = 255, G = 255, B = 255), are not adjusted. These portions of the image will always print white.
- 11) If you select “ICM” for color adjustment on Windows 98/Me, the matching method is limited to “Photo”.
- 12) Set the bi-directional communication function to ON in the printer properties dialog.  
Use the following procedure to check that the bi-directional communication function is set to ON.
  - (1) Select “Start” - “Settings” and then “Printers”.
  - (2) Click on “OLYMPUS P-440” to select this printer, right-click to open a pop-up menu, and then click on “Properties”.
  - (3) Click on “Spool Settings” in the “Details” tab.
  - (4) Check that “Enable bi-directional support for this printer” is checked.
- 13) Depending on the version of Photoshop, item “Printer color control” is displayed in the print dialog. When printing with this setting ON after storing multiple pieces of image data in the printer spooler, normal colors may not be printed. When printing with “Printer color control” ON, do not store multiple pieces of image data in the spooler.
- 14) In some applications, the number of copies that have been set in the printer driver may not function.  
Set the number of copies in the print dialog box of the application.

## When Using a Macintosh

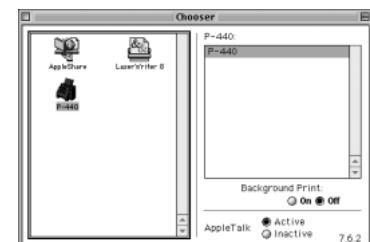
**1** Select P-440 from the Chooser of the Apple menu.

For Mac OSX, open the “Utilities” folder from the “Applications” folder, start Print Center, and then select P-440.

Mac OS 8.6-9.2



Mac OS X



**2** Select the desired paper settings in the “Page Setup” dialogue box.

For Mac OSX, select “File” - “Page Setup” or “File” - “Print”.

### Paper Size:

Select the paper size (A4, A4-postcard, A5 WIDE, A6 WIDE) from the pop-up menu. (The printer is not compatible with A4L-size cards only when printing from a PC.)

### Orientation:

Set the paper usage, Vertical (portrait) or horizontal (landscape), by clicking on the icon.

### Enlarge/Reduce:

Set the print size (25-400%) either by key entry or by pressing on the up or down arrow button until the desired percentage is displayed.

### Sharpness:

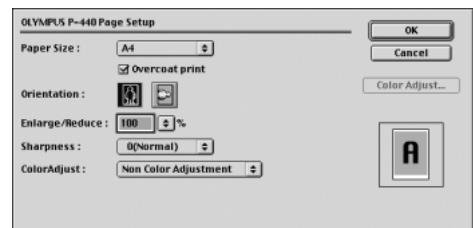
Select sharpness correction (-5-5) from the pop-up menu.

### ColorAdjust:

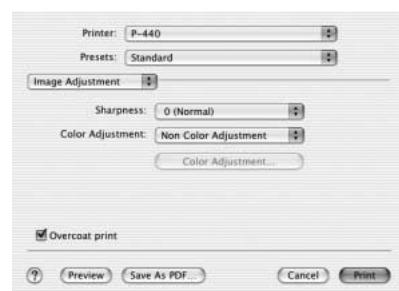
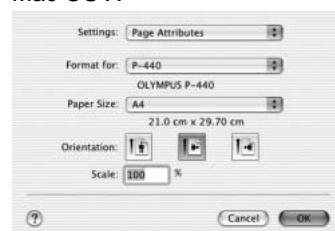
Select the type of color adjustment you want to make. (Color adjustment is possible by selecting the “Driver” item and clicking on the “Color Adjustment” button.) If you select “ColorSync”, color adjustment will be performed based on the ICC profile. To output a landscape image, select “Scene”.

When you use Print Image Matching Plug-in for Adobe Photoshop, select “Non Color Correction”.

Mac OS 8.6-9.2



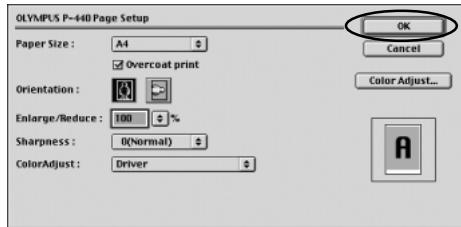
Mac OS X



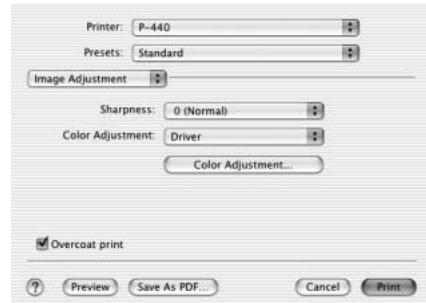
**3** Click on “OK”.

The settings are enabled.

Mac OS 8.6-9.2



Mac OS X



#### • Color Adjustment using the “Driver” Setting

If you selected the “Driver” under “ColorAdjust” in the “Paper” dialog, you will be able to use a preview display as you adjust the color here.

#### Tip

- The color tone of the preview may differ from that of actual prints. The displayed color tone should only be used as a rough indication of color tone.

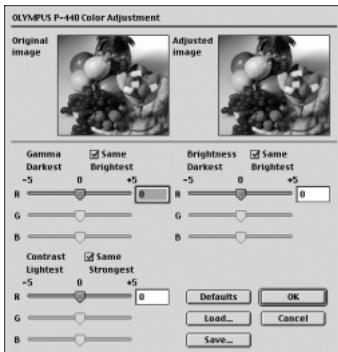
**1** Click on the “Color Adjustment” button.

#### Caution

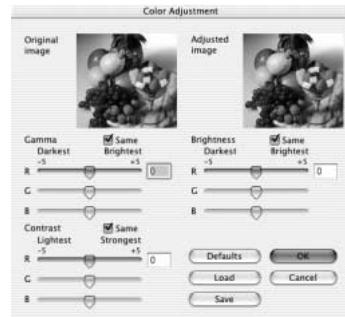
- The “Color Adjustment” tab is only available when the “Driver” is selected under “ColorAdjust”.

## 2 Adjust the color.

Mac OS 8.6-9.2



Mac OS X



Gamma: Change the half-tone density (-5-5) of R, G and B, respectively, with the control bar or arrow tool. Clicking on "Same" allows R, G and B to be changed all at once.

Brightness: Change the total picture density (-5-5) of R, G and B, respectively, with the control bar or arrow tool. Clicking on "Same" allows R, G and B to be changed all at once.

Contrast: Adjust the contrast (-5-5) of R, G and B, respectively, with the control bar or arrow tool. Clicking on "Same" allows R, G and B to be adjusted all at once.

Defaults: Returns the setting of each parameter to the initial setting.

Load: Load saved color adjustment values.

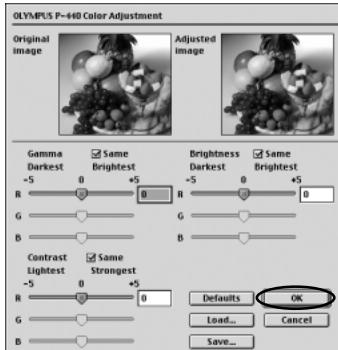
Save: Saves the set values.

### Tips

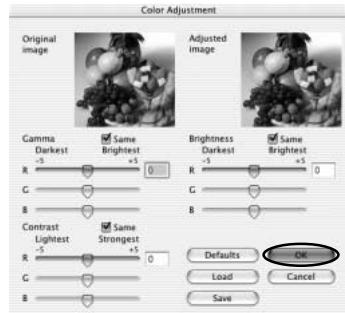
- The procedure for changing color adjustment from the printer and that for changing color adjustment from a PC are the same.
- Adjustments made using the driver override those made on the printer.

## 3 Click on "OK".

Mac OS 8.6-9.2



Mac OS X



### Tips

- The same picture is printed out twice for postcards.
- During background printing, mouse and key operation may not be smooth or printing may take some time.
- The P-440 is not compatible with QuickDraw GX.

## • Color Adjustment using the “ColorSync” Setting

Enables printing at a color that most closely resembles the system profile setting.

Selection is possible among 4 types of renderings that are normally supported on a Macintosh computer.

Picture: Most appropriate for photographs.

Graphics: Most appropriate for bar and pie graphs.

Match: For higher quality printing.

Proof: Most appropriate for logos.

## Precautions Regarding the Printer Driver

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- 1) In the case of printing in A4 size paper, a minimum of 50 MB of available memory is required in the hard disk (excluding regions using the OS and applications) in order to prepare printing data.
- 2) During background printing, mouse or key operation may not be smooth or printing may take some time.
- 3) This printer driver is not compatible with QuickDraw GX.
- 4) If you remove the USB cable after the printer driver was installed, wait at least 5 seconds before connecting it again. Otherwise, the printer may not operate properly. You must also wait if you turn the printer ON and OFF or change the input selection.
- 5) If you remove the USB cable during print operation, the system may freeze. Do not remove the USB cable.
- 6) Depending on the specifications or setting of the OS or PC, if processing has been interrupted while printing is in progress, the PRINTING lamp on the printer may continue flashing. If this occurs, temporarily turn off the printer power and then turn it back on again.
- 7) While “Please Wait” is displayed on the LCD panel of the printer during continuous printing, printing is not performed. When the message disappears, printing will resume automatically.
- 8) Pure white portions of the image (R = 255, G = 255, B = 255), are not adjusted. These portions of the image will always print white.
- 9) In some applications, the number of copies that have been set in the printer driver may not function. Set the number of copies in the print dialog box of the application.

## ●Printing from a PC

---

Select a picture with the image editing software of the PC being used and print it out.

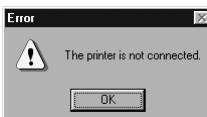
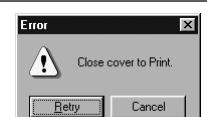
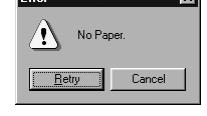
### Tip

- Refer to the instruction manual of the image editing software being used for information regarding printing from a PC.

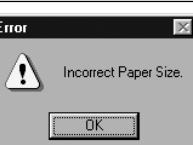
## ●When a Message is Displayed on the PC

### Windows Error Messages

#### 1. Errors displayed before data transfer (before printing)

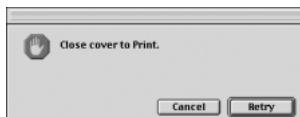
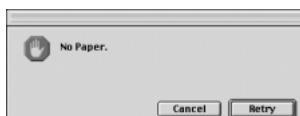
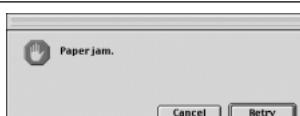
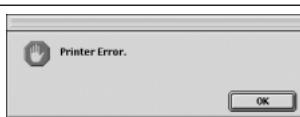
Description	Cause	Corrective Measures
 The printer is not connected. OK	<ul style="list-style-type: none"><li>The printer is not connected or “INPUT” is not set to “USB”.</li></ul>	<ul style="list-style-type: none"><li>Interrupt processing by pressing the OK button. (An error message may be issued by the operating system if the printer is not connected.)</li></ul>
 Close cover to Print. Retry Cancel	<ul style="list-style-type: none"><li>The printer cover is open.</li></ul>	<ul style="list-style-type: none"><li>Retry button: Printing can be continued after removing the error.</li><li>Cancel button: Cancels printing.</li></ul>
 No Paper. Retry Cancel	<ul style="list-style-type: none"><li>The printer is out of paper.</li></ul>	<ul style="list-style-type: none"><li>Retry button: Printing can be continued after removing the error.</li><li>Cancel button: Cancels printing.</li></ul>
 Paper Jam. Retry Cancel	<ul style="list-style-type: none"><li>There is paper remaining in the printer.</li></ul>	<ul style="list-style-type: none"><li>Retry button: Printing can be continued after removing the error.</li><li>Cancel button: Cancels printing.</li></ul>
 Printer Error. Retry Cancel	<ul style="list-style-type: none"><li>An error has occurred.</li></ul>	<ul style="list-style-type: none"><li>Contact the nearest service department of Olympus.</li></ul>

## 2. Errors displayed after data transfer (during printing)

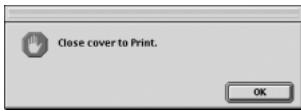
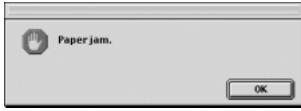
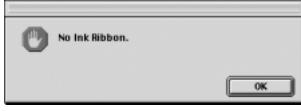
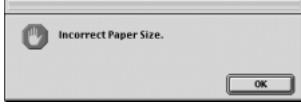
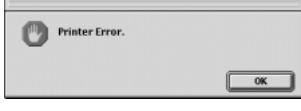
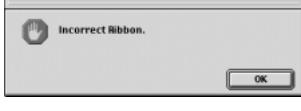
Description	Cause	Corrective Measures
	<ul style="list-style-type: none"> <li>The printer cover is open.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Close the printer cover.</li> </ul>
	<ul style="list-style-type: none"> <li>There is paper remaining in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Take out the paper.</li> </ul>
	<ul style="list-style-type: none"> <li>The ink ribbon is not installed.</li> <li>The printer is out of ink ribbon.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Check whether ink ribbon is installed in the printer.</li> <li>Replace the ink ribbon (refer to page 154).</li> </ul>
	<ul style="list-style-type: none"> <li>Paper of a different size than the setting is installed in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Either insert different paper or change the paper setting (refer to page 33).</li> </ul>
	<ul style="list-style-type: none"> <li>An error has occurred.</li> </ul>	<ul style="list-style-type: none"> <li>Contact the nearest service department of Olympus.</li> </ul>
	<ul style="list-style-type: none"> <li>Ink ribbon of a different size than the setting is installed in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Either insert different ink ribbon or change the paper setting (refer to page 33).</li> </ul>
	<ul style="list-style-type: none"> <li>The printer does not send back any response.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Turn the printer power off and then on again.</li> </ul>

## Macintosh Error Messages

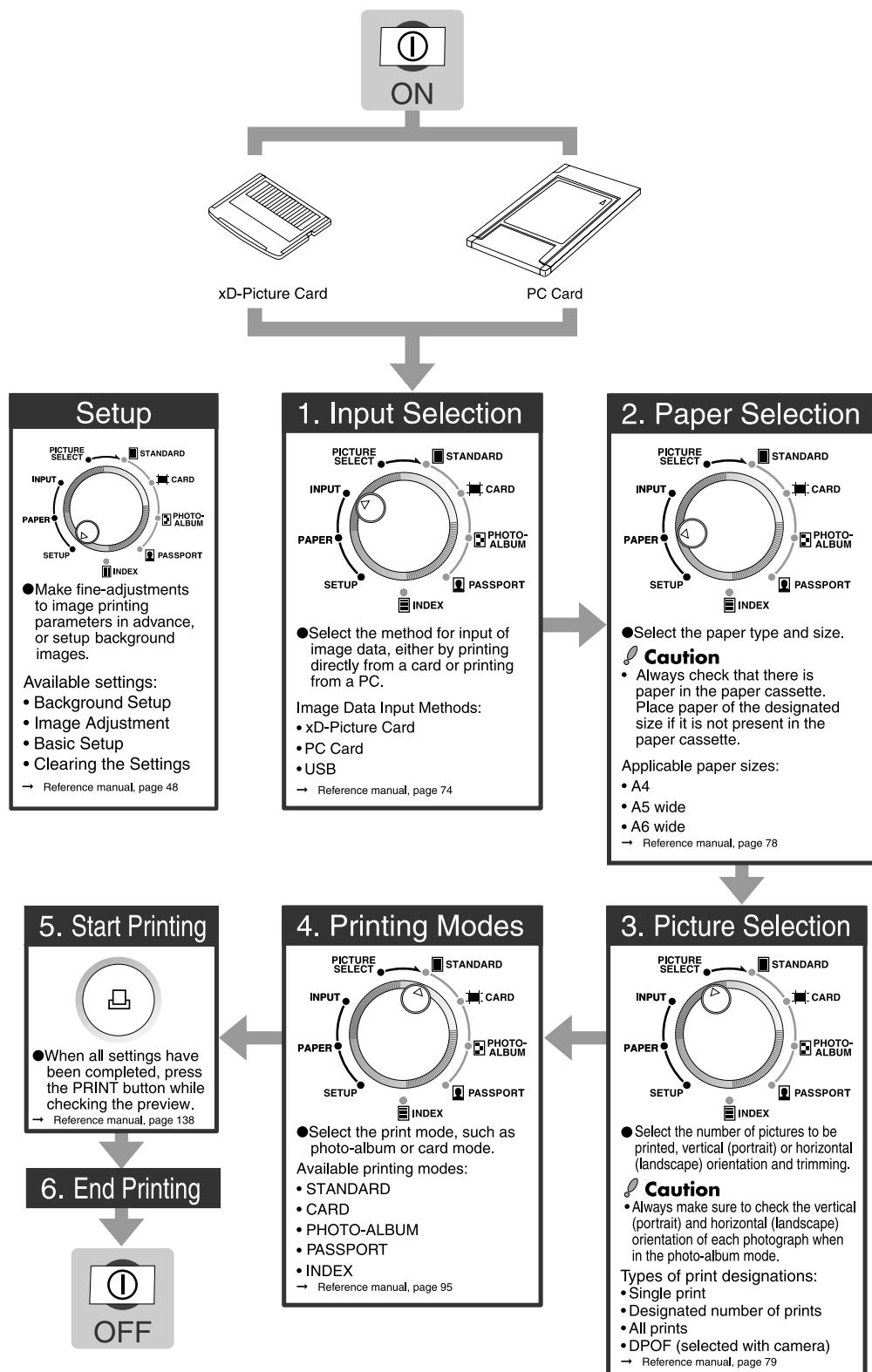
### 1. Errors displayed before data transfer (before printing)

Description	Cause	Corrective Measures
 <p>The printer is not connected.</p> <p>Cancel Retry</p>	<ul style="list-style-type: none"> <li>The printer is not connected or “INPUT” is not set to “USB”.</li> </ul>	<ul style="list-style-type: none"> <li>Retry button: Printing can be continued after removing the error.</li> <li>Cancel button: Cancels printing.</li> </ul>
 <p>Close cover to Print.</p> <p>Cancel Retry</p>	<ul style="list-style-type: none"> <li>The printer cover is open.</li> </ul>	<ul style="list-style-type: none"> <li>Retry button: Printing can be continued after removing the error.</li> <li>Cancel button: Cancels printing.</li> </ul>
 <p>No Paper.</p> <p>Cancel Retry</p>	<ul style="list-style-type: none"> <li>The printer is out of paper.</li> </ul>	<ul style="list-style-type: none"> <li>Retry button: Printing can be continued after removing the error.</li> <li>Cancel button: Cancels printing.</li> </ul>
 <p>Paper jam.</p> <p>Cancel Retry</p>	<ul style="list-style-type: none"> <li>There is paper remaining in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>Retry button: Printing can be continued after removing the error.</li> <li>Cancel button: Cancels printing.</li> </ul>
 <p>Printer Error.</p> <p>OK</p>	<ul style="list-style-type: none"> <li>An error has occurred.</li> </ul>	<ul style="list-style-type: none"> <li>Contact the nearest service department of Olympus.</li> </ul>

## 2. Errors displayed after data transfer (during printing)

Description	Cause	Corrective Measures
	<ul style="list-style-type: none"> <li>The printer cover is open.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Close the printer cover.</li> </ul>
	<ul style="list-style-type: none"> <li>There is paper remaining in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Take out the paper.</li> </ul>
	<ul style="list-style-type: none"> <li>The ink ribbon is not installed.</li> <li>The printer is out of ink ribbon.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Check whether ink ribbon is installed in the printer.</li> <li>Replace the ink ribbon (refer to page 154).</li> </ul>
	<ul style="list-style-type: none"> <li>Paper of a different size than the setting is installed in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Either insert different paper or change the paper setting (refer to page 38).</li> </ul>
	<ul style="list-style-type: none"> <li>An error has occurred.</li> </ul>	<ul style="list-style-type: none"> <li>Contact the nearest service department of Olympus.</li> </ul>
	<ul style="list-style-type: none"> <li>Ink ribbon of a different size than the setting is installed in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>OK button: Cancels printing.</li> <li>Either insert different ink ribbon or change the paper setting (refer to page 33).</li> </ul>

## **Printing Procedure When Printing from a Card**



# Setup

This mode is used to make fine-adjustments in advance to image printing parameters, or to register and/or adjust background images.

Available settings:

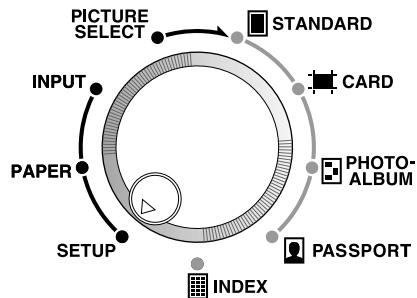
- Background Setup
- Image Adjustment
- Basic Setup
- Clearing the Settings

## ●Background Setup

If you want to add a background to the print, perform the following procedure to register and adjust the background image.

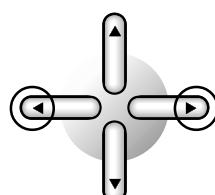
- 1 Set the mode selector dial to the SETUP position.

The Setup menu is displayed.



- 2 Press either the left or the right arrow button.

The image contained on the card in the selected card slot will be displayed.



### Tip

- If the background that you want to register is on another xD-Picture Card or PC Card, insert that card.



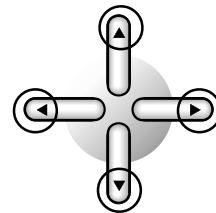
## A. Selecting the Background Image

It is possible to use the image data included when this printer was shipped as a background image. It is also possible to use any other image data that you may like.

**1** Scroll through the pictures using the left and right arrow buttons.

Pressing the right arrow button advances to the next picture, while pressing the left arrow button moves back to the previous picture.

Pressing the up arrow button jumps to the next set of 10 pictures, while pressing the down arrow button jumps back to the previous set of 10 pictures.



### Tips

- Holding down the left or right arrow button for over 1 second will start automatic advancement of the picture file name (forward with the right arrow button and backward with the left arrow button). When you reach the desired file name, release the button to stop automatic advancement. The desired picture is displayed.
- The background image can also be selected from the index display. Refer to "3. Picture Selection and Setting" (page 79) for information on accessing the index display. The background image, however, can not be rotated.
- An enlarged picture can also be used as a background image. Refer to "3. Picture Selection and Setting" (page 79) for information on enlarging pictures. The background image, however, can not be rotated.

**2** Confirm the picture that you want to use as the background image in the LCD panel, and then press the OK/SELECT button.

The picture is registered as a background image and is displayed in the Register Background menu.

### OK / SELECT

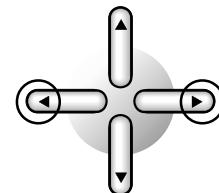
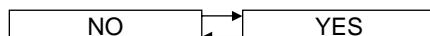


## B. Adjusting the Background Image

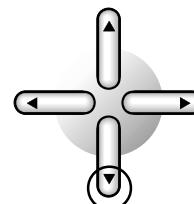
This procedure is used in making partial and overall settings for the picture that has been selected as a background image, as well as in the selection of a desired filter.

**1** Select whether or not to lighten the overall picture using the left and right arrow buttons.

The display changes as shown below each time the left or right arrow button is pressed.



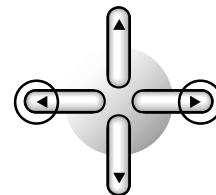
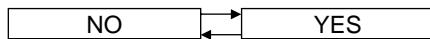
**2** Select “PALE EDGE” using the down arrow button.



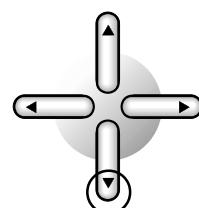
The text will turn to green.

**3** Select whether or not to lighten the edges of the picture using the left and right arrow buttons.

The display changes as shown below each time the left or right arrow button is pressed.



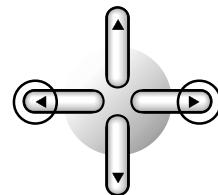
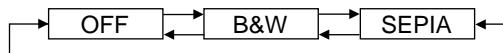
.....  
**4** Select “FILTER” using the down arrow button.



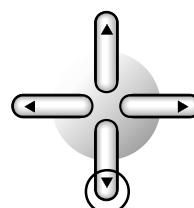
The text will turn to green.

**5** Select the desired filter using the left and right arrow buttons.

The display changes as shown below each time the left or right arrow button is pressed.



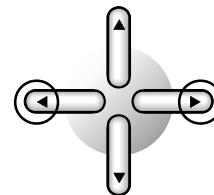
.....  
**6** Select “TRIMMING” using the down arrow button.



The text will turn to green.

**7** Select whether or not to trim (crop) the picture using the left and right arrow buttons.

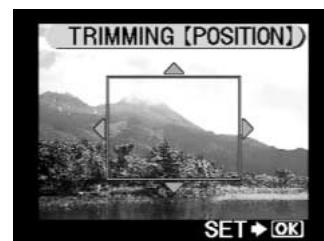
The display changes as shown below each time the left or right arrow button is pressed.



**8** To trim (crop) the picture, select “YES” and press the OK/SELECT button.

Trimming is now possible.

**OK / SELECT**

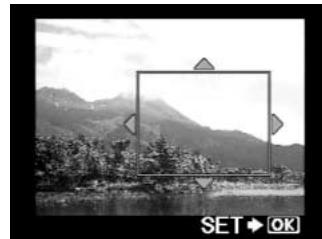
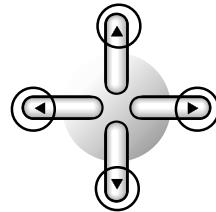


**9**

Set the trimming position using the arrow buttons.

The trimming range can be selected to one of five levels each in the vertical and horizontal directions. The trimming position is selected by moving the guidelines to the desired location with the up, down, left and right arrow buttons.

Pressing the up and down arrow buttons adjusts the horizontal guidelines, while pressing the left and right arrow buttons adjusts the vertical guidelines.



**10**

Once the various settings for the background image have been completed, press the OK/SELECT button.

The Background Image menu is displayed.

**OK / SELECT**

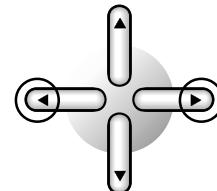


## C. Registering the Background Image

This procedure is used to register settings related to the shading and filter to be used with the background image.

**1** Select whether or not to register the background image using the left and right arrow buttons.

The display changes as shown below each time the left or right arrow button is pressed.



### Tip

- If you do not want to register the background image, select "NO" and press the OK/SELECT button. The display returns to the Setup menu.

**2** Press the OK/SELECT button.

If "YES" has been selected, registration of the background image begins and that progress is displayed.

The registered background image is displayed for about 2 seconds and then the display returns to the Setup menu.

### OK / SELECT



### Caution

- The amount of time that it takes to register the background image differs depending on the size of the image and the degree of detail of the pattern. Some images may not be registered depending on the size or pattern.
- The number pixels of pictures registered for background should be an even number both vertically and horizontally.
- Do not remove the xD-Picture Card or the PC card before registering the background image is complete.

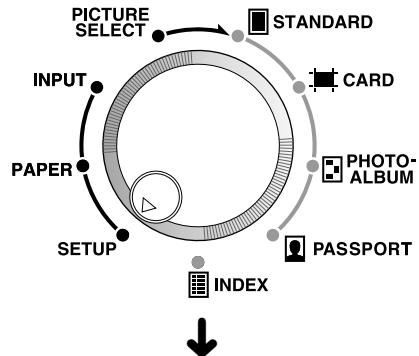


## ●Image Adjustment (Printing Adjustment)

This procedure is used to make color and overall image adjustments during printing. If you are performing this procedure immediately after registering a background image, you should be able to skip step 1.

**1** Set the mode selector dial to the SETUP position.

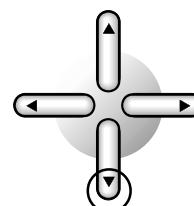
The Setup menu is displayed.



### Caution

- When printing from a computer these settings may be override by settings in the printer driver.

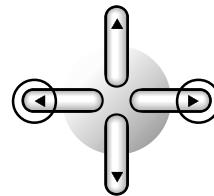
**2** Select “IMAGE ADJUSTMENT” using the down arrow button.



The background will turn to orange.

**3** Press the left or right arrow button.

The Image Adjust menu is displayed.



 **Tip**

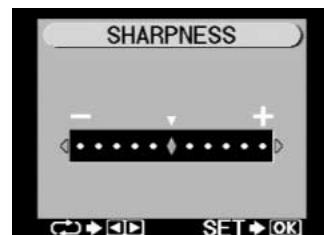
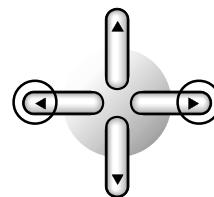
- Check that "SHARPNESS" is selected (the background color should be orange) and then proceed to sharpness adjustment. If "SHARPNESS" is not selected, select it with the up or down arrow button.

## A. Sharpness Adjustment

This procedure is used to adjust sharpness.

**1** Press either the left or right arrow button.

The sharpness adjustment menu is displayed.



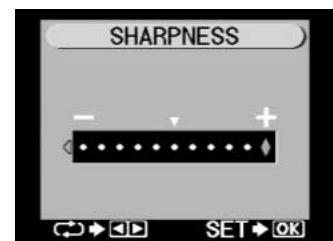
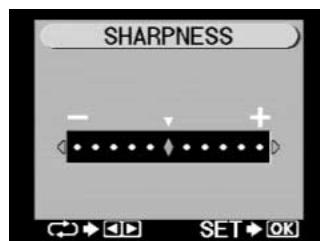
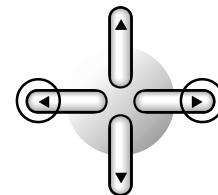
 **Tip**

- The previously set value is displayed.

**2** Adjust sharpness with the left or right arrow button.

Pressing the right arrow button (▶) increases sharpness.

Pressing the left arrow button (◀) decreases sharpness.



**3** Once adjustment has been completed, press the OK/SELECT button.

The display returns to the Image Adjust menu.

**OK / SELECT**



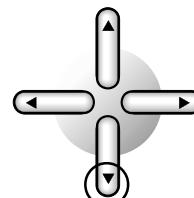
### Tip

- A red ◆ is displayed to the left of the selected setting when the sharpness is set to a value other than the middle setting.

## B. Gamma Adjustment

This procedure is used to adjust gamma.

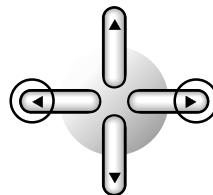
**1** Select “GAMMA” with the down arrow button.



The background will turn to orange.

**2** Press either the left or right arrow button.

The gamma adjustment menu is displayed.

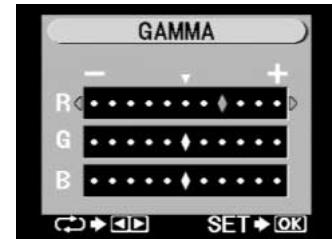
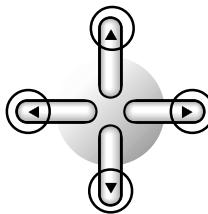


 **Tip**

- The previously set value is displayed.

**3** Select R, G and B levels with the up or down arrow button, and density with the left or right arrow button.

Pressing the right arrow button (➡) results in brighter images, while pressing the left arrow button (⬅) results in darker images.



**4** Once adjustments have been completed, press the OK/SELECT button.

The display returns to the Image Adjust menu.

**OK / SELECT**



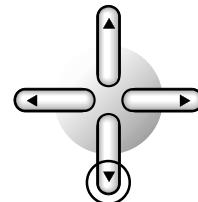
 **Tip**

- A red ♦ is displayed to the left of the selected setting when the gamma adjustment is set to a value other than the middle setting.

## C. Brightness Adjustment

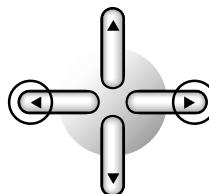
This procedure is used to adjust brightness (brightness of the overall pictures).

1 Select “BRIGHTNESS” by pressing the down arrow button.



The background will turn to orange.

2 Press either the left or right arrow button.  
The brightness adjustment menu is displayed.

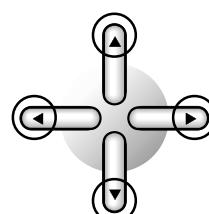


### Tip

- The previously set value is displayed.

3 Select R, G and B levels with the up or down arrow button, and brightness with the left or right arrow button.

Pressing the right arrow button (➡) results in brighter images, while pressing the left arrow button (⬅) results in darker images.



**4** Once adjustments have been completed, press the OK/SELECT button.

The display returns to the Image Adjust menu.

**OK / SELECT**



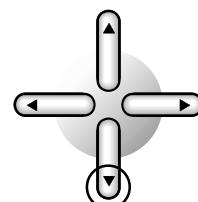
 **Tip**

- A red ◆ is displayed to the left of the selected setting when the brightness is set to a value other than the middle setting.

#### D. Contrast Adjustment

This procedure is used to adjust contrast.

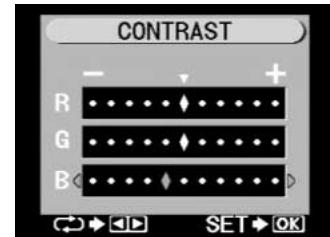
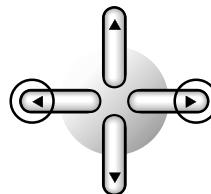
**1** Select “CONTRAST” by pressing the down arrow button.



The background will turn to orange.

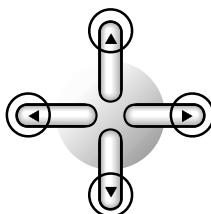
**2** Press either the left or right arrow button.

The contrast adjustment menu is displayed.



**3** Select R, G and B levels with the up or down arrow button, and contrast with the left or right arrow button.

Pressing the right arrow button (▶) the contrast will be increased, while pressing the left arrow button (◀) it will be decreased.



**4** Once adjustments have been completed, press the OK/SELECT button.

The display returns to the Image Adjust menu.

**OK / SELECT**



- A red ◆ is displayed to the left of the selected setting when the contrast is set to a value other than the middle setting.

## E. Completion of Image Adjustment

Image adjustment is completed by enabling the values that have been set for each parameter.

1 Press the OK/SELECT button when image adjustment has been completed.  
The display returns to the Setup menu.

**OK / SELECT**

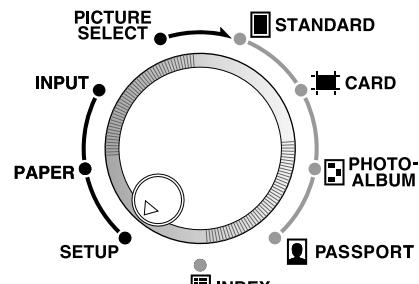


## ●Basic Setup

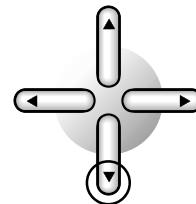
This procedure is used to set the margin, fit the image, select the number of frames for index display, designates the order of the displayed date and make other basic settings. If you are performing this procedure immediately after registering a background image or making image adjustments, you should be able to skip step 1.

1 Set the mode selector dial to the SETUP position.

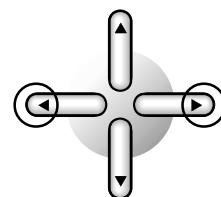
The Setup menu is displayed.



**2** Select “BASIC SETUP” by pressing the down arrow button.



.....  
**3** Press the left or right arrow button.  
The Basic Setup menu is displayed.

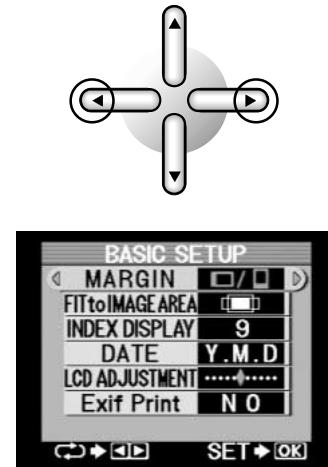
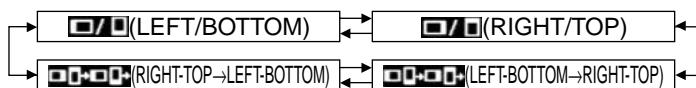


## A. Setting the Border Margin

This procedure is used to select how the printer will scale and print images that do not match the selected print size.

**1** Select the margin area using the left and right arrow buttons.

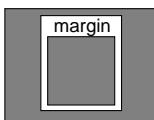
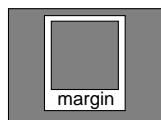
The display changes as shown below each time the left or right arrow button is pressed.



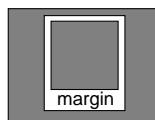
### Tips

- Selecting [LEFT/BOTTOM] creates a margin on the left side of paper using horizontal (landscape) orientation, and on the bottom of paper using vertical (portrait) orientation.
- Selecting [RIGHT/TOP] creates a margin on the right side of paper using horizontal (landscape) orientation, and on the top of paper using vertical (portrait) orientation.
- Selecting [LEFT-BOTTOM → RIGHT-TOP] creates a margin on the left side of the 1st sheet of paper using horizontal (landscape) orientation, and on the right side of the 2nd sheet. This setting creates a margin on the bottom of the 1st sheet of paper using vertical (portrait) orientation, and on the top of the 2nd sheet. This setting is convenient for creating sets of prints which will be bound together.
- Selecting [RIGHT-TOP → LEFT-BOTTOM] creates a margin on the right side of the 1st sheet of paper using horizontal (landscape) orientation, and on the left side of the 2nd sheet. This setting creates a margin on the top of the 1st sheet of paper using vertical (portrait) orientation, and on the bottom of the 2nd sheet. This setting is convenient for creating sets of prints which will be bound together.

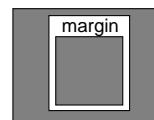
Vertical Left/Bottom: Vertical Right/Top:



Vertical Left-Bottom → Right-Top:

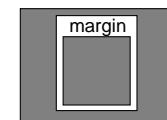


1st sheet

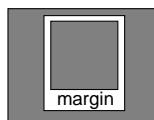


2nd sheet

Vertical Right-Top → Left-Bottom:

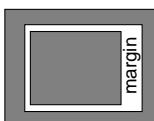
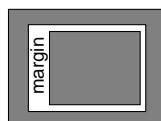


1st sheet

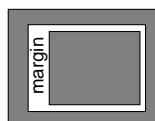


2nd sheet

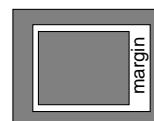
Horizontal Left/Bottom: Horizontal Right/Top:



Horizontal Left-Bottom → Right-Top:

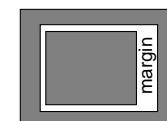


1st sheet

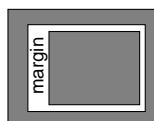


2nd sheet

Horizontal Right-Top → Left-Bottom:



1st sheet

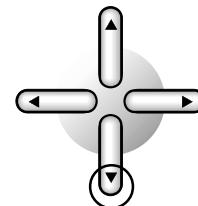


2nd sheet

## B. Fit to Image Area

This procedure is used to select how the printer will scale and print images that do not match the selected print size.

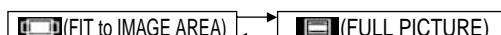
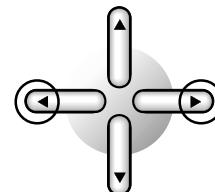
**1** Select “FIT to IMAGE AREA” using the down arrow button.



The text will turn to green.

**2** Select whether to scale the size of the picture to fit onto the card or to print the picture full size.

The display changes as shown below each time the left or right arrow button is pressed.



### Tips

- If “FIT to IMAGE AREA” is selected, the picture will be printed without consideration for how it fits in the frame.
- If “FULL PICTURE” is selected, no part of the picture will be cropped, but an increased white area (margin) may thus be created.

FIT to IMAGE AREA



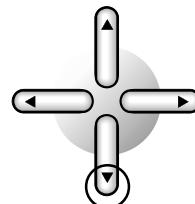
FULL PICTURE



## C. Index Display Selection

This procedure is used to switch between a 4 frame and 9 frame thumbnail index display.

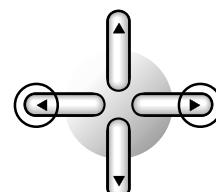
**1** Select “INDEX DISPLAY” using the down arrow button.



The text  
will turn  
to green.

**2** Select the number of frames to be displayed in the thumbnail index.

The display changes as shown below each time the left or right arrow button is pressed.

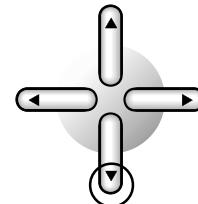


The text  
will turn  
to green.

## D. Designating Date Order

This procedure is used to designate the manner in which the printed date is displayed.

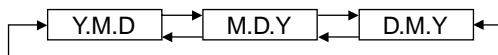
1 Select “DATE” using the down arrow button.



The text will turn to green.

2 Designate the manner in which the printed date is to be displayed with the left or right arrow button.

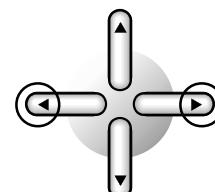
The display changes in the manner shown below each time the left or right arrow button is pressed.



Y : Year

M : Month

D : Day



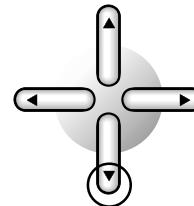
### Tips

- This is enabled when “DATE” is selected for “PRINT DATE” in the STANDARD, CARD, PHOTO-ALBUM and INDEX modes.
- When setting of other parameters is not required, press the OK/SELECT button and return to the setup menu.

## E. Adjusting the LCD Panel Brightness

This procedure is used to adjust the brightness of the LCD panel.

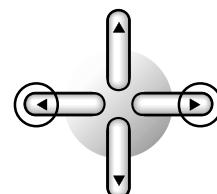
**1** Select “LCD ADJUSTMENT” using the down arrow button.



The text will turn to green.

**2** Adjust the brightness of the LCD panel using the left and right arrow buttons.

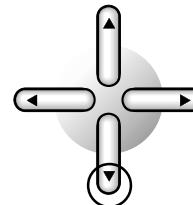
Pressing the right arrow button makes the LCD panel lighter, and pressing the left arrow button makes it darker.



## F. Exif Print

This procedure is used to designate whether Exif printing is performed or not. If Exif printing is set, print conditions such as brightness and contrast are automatically corrected in accordance with the picture taking information contained in the image data.

1 Select “Exif Print” by pressing the down arrow button.



The text will turn to green.

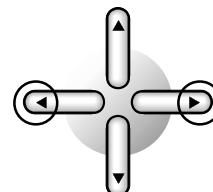
2 Select whether to perform Exif printing or not with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



NO: Exif printing is not performed.

YES: Exif printing is performed.



### Tip

- Exif print is available only if one picture has been selected in the standard print mode. This function is not available in other print modes.

## G. Completing the Settings

Setting is completed by enabling each of the setting of Basic Setup.

**1** Press the OK/SELECT button.

The display returns to the setup menu.

**OK / SELECT**

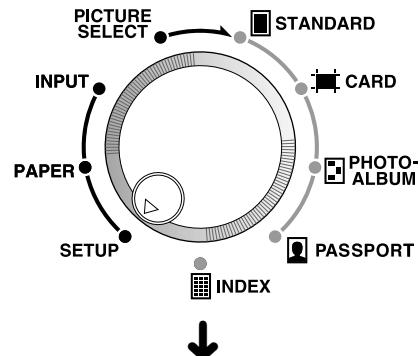


## ●Clearing the Settings (Returning to the Factory Default Settings)

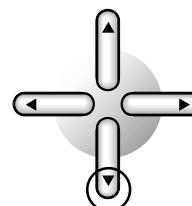
This procedure is used to return all settings made in the printer to their factory defaults.

**1** Set the mode selector dial to the SETUP position.

The Setup menu is displayed.



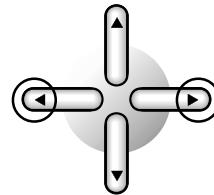
**2** Select "ALL CLEAR" using the down arrow button.



The background will turn to orange.

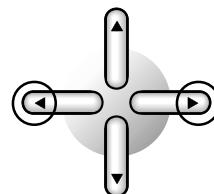
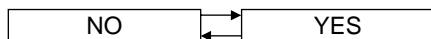
**3** Press either the left or the right arrow button.

The ALL CLEAR screen appears.



**4** Select whether or not to clear all of the settings using the left and right arrow buttons.

The display changes as shown below each time the left or right arrow button is pressed.



**5** Press the OK/SELECT button.

The display returns to the Setup menu.

**OK / SELECT**

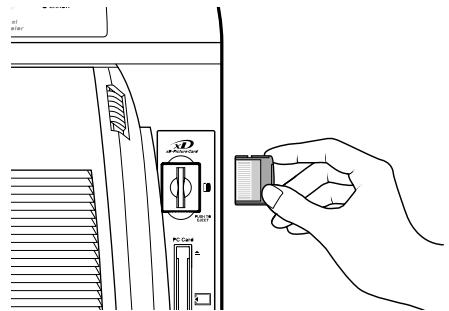


# 1. Input Selection

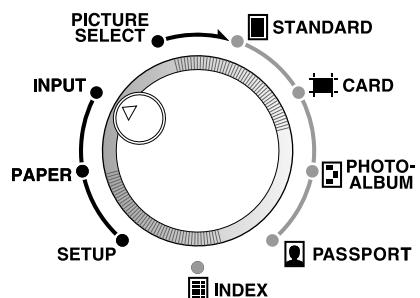
Select the source from where image data is to be loaded, either from xD-Picture Card or a PC card.

## ●Using xD-Picture Card

- 1 Insert the xD-Picture Card into the xD-Picture Card slot.

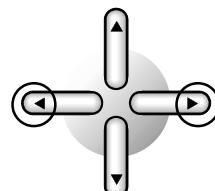


- 2 Set the mode selector dial to the INPUT position.



- 3 Select “xD-Picture Card” with the left or right arrow button.

The display changes in the manner shown below each time an arrow button is pressed.





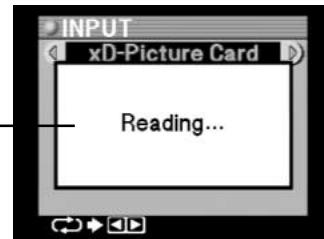
The xD-Picture Card access lamp flashes when image data is being transferred from the xD-Picture Card.

- xD-Picture Card
- PC Card
- PRINTING
- ERROR

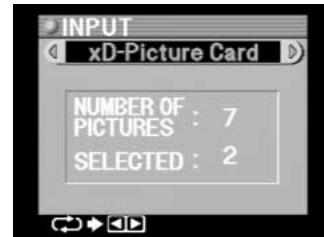
## Caution

- Never remove the xD-Picture Card while the xD-Picture Card access lamp is flashing. This can damage the xD-Picture Card and prevent it from being used.

Display of xD-Picture Card reading in progress



When loading of image data is completed, the number of image data files on the xD-Picture Card and DPOF selections, when that data is present, are displayed.



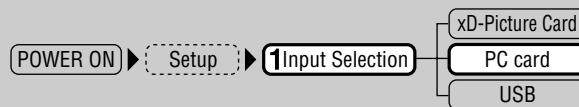
## Tip

- An error message is displayed on the LCD panel when an inserted xD-Picture Card does not contain image data, the xD-Picture Card is unable to be recognized, or the xD-Picture Card is removed from the printer while accessing is in progress.

4

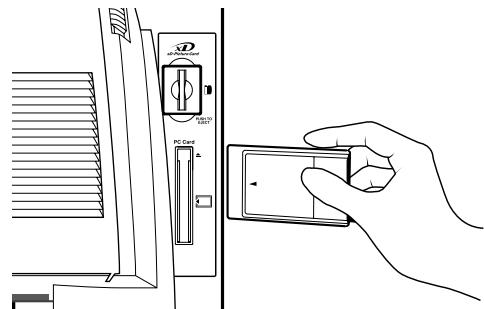
Select the paper.

Proceed to “2. Paper Selection” (page 78).

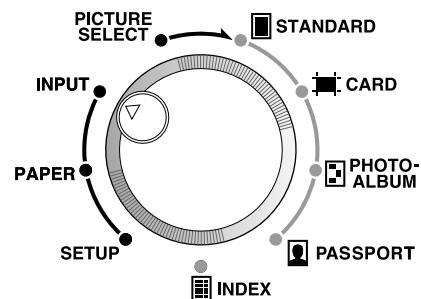


## ●Using a PC Card

**1** Insert the PC card into the PC card slot.

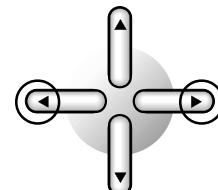


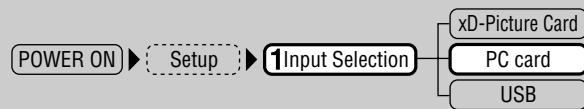
**2** Set the mode selector dial to the INPUT position.



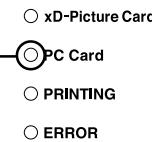
**3** Select “PC Card” with the left or right arrow button.

The display changes in the manner shown below each time an arrow button is pressed.



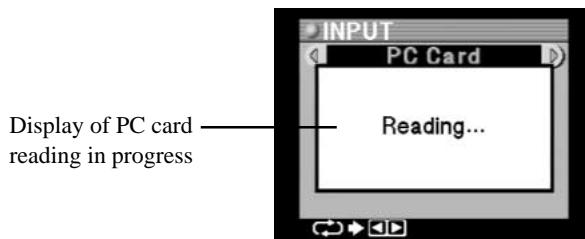


The PC Card access lamp flashes and the image files are loaded from the PC card.

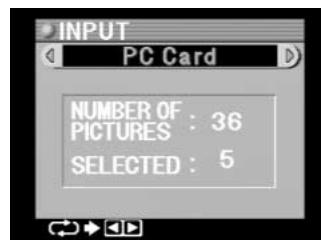


 **Caution**

- Never remove the PC Card while the PC Card access lamp is flashing. This can damage the PC Card and prevent it from being used.



When loading of image data is completed, the number of image data files on the PC card and DPOF selections, when that data is present, are displayed.



 **Tip**

- An error message is displayed on the LCD panel when an inserted PC card does not contain image data, the PC card is unable to be recognized, or the PC card is removed from the printer while accessing is in progress.

## 4 Select the paper.

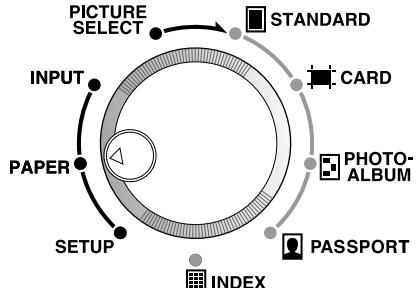
Proceed to “2. Paper Selection” (page 78).

## 2. Paper Selection

Select whether A4, A5 wide or A6 wide paper.

### ●Setting the Paper

**1** Set the mode selector dial to the PAPER position.

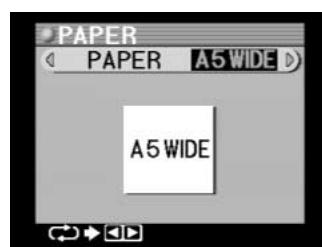
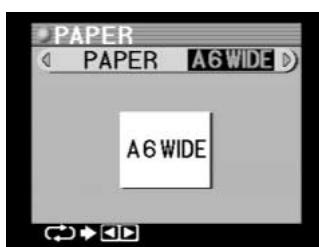
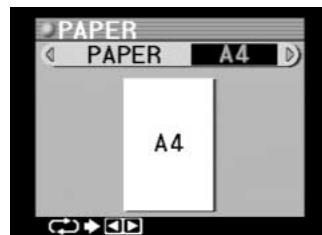
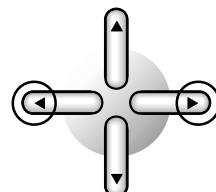


**2** Select “PAPER” with the left or right arrow button.

The icon of the selected paper size is displayed on the LCD panel. The display changes as shown below each time an arrow button is pressed.



When selection of paper has been completed, proceed to the next step, “3. Picture Selection and Setting” (page 79).



### Tips

- The printer cannot determine the actual size of the paper loaded in the printer so make sure the selected size matches.
- If the paper setting is set to A5 WIDE and pictures are printed out on A4 paper, the pictures are printed out within the A5 WIDE range.
- An error occurs when the paper setting is set to A4, and pictures are printed out on A5 WIDE paper.
- A6 WIDE paper can be used only in the PASSPORT print mode. An error occurs if it is used in other modes.

# 3. Picture Selection and Setting

Pictures are selected using the LCD panel. Settings made in this section include how many prints are to be printed, whether the picture is to be oriented vertically or horizontally relative to the paper, and whether or not trimming is to be performed on image data.

## ●Selecting and Setting Pictures on a Card

### A. Picture Selection

**1** Align the mode selector dial to the PICTURE SELECT position.

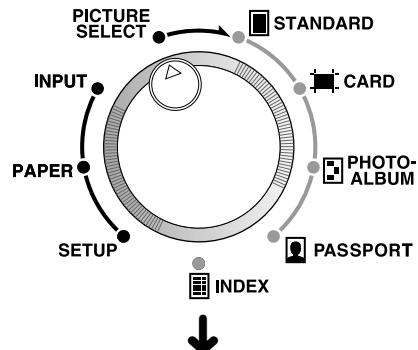


Image data is displayed on the LCD panel.

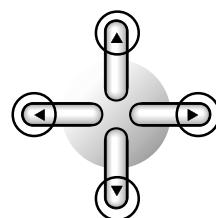
### Caution

- The time to display the preview varies according to the picture size and compression ratio of the digital camera used to take the pictures.

**2** Scroll through the pictures using the up, down, left and right arrow buttons.

Pressing the right arrow button advances to the next picture, while pressing the left arrow button moves back to the previous picture.

Pressing the down arrow button jumps to the next set of 10 pictures, while pressing the up arrow button jumps back to the previous set of 10 pictures.



### Tip

- Holding down the left or right arrow button for over 1 second will start automatic advancement of the picture file name (forward with the right arrow button and backward with the left arrow button). During advancement of the file names, a scroll bar will be displayed on the left side of the screen. Release either button when desiring to stop automatic advance and display the desired picture.

**3** Confirm the picture displayed on the LCD panel is the picture to be printed.

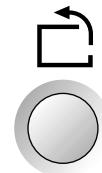


## B. Picture Rotation

This procedure is used to designate whether the picture to be printed is to be oriented vertically or horizontally on the paper set in “2. Paper Selection”. (Image rotation is only reflected in prints in the ALBUM mode.)

**1** Select the desired orientation using the ROTATE button.

The picture is rotated 90 degrees counter-clockwise each time the ROTATE button is pressed.



### Tip

- If the previewed picture (displayed on the LCD panel) has become too long in the vertical direction as a result of rotation, it is displayed after being reduced in size so that the entire picture can be confirmed on the LCD panel.

**2** Once the picture orientation has been decided, press the OK/SELECT button.

**OK / SELECT**



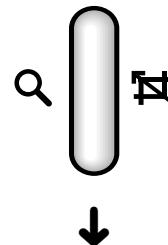
**Tips**

- A “ (select mark)” is displayed on the LCD panel containing the picture selected for printing.
- A “ (select mark)” is displayed when a picture has been selected by the camera.
- When desiring to cancel a picture, display that picture and press the OK/SELECT button again.
- Always make sure to check the picture orientation when printing in the photo-album mode.

**C. Enlarging the Size of the Picture**

To help ensure that the correct image has been selected to be printed, it is possible to select a portion of the image to enlarge for confirmation purpose.

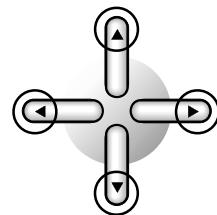
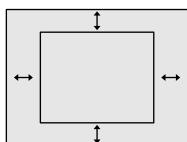
**1** Press the ENLARGE button.



**2** Select the desired area using the up, down, left and right arrow buttons.

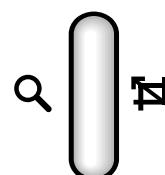
Pressing the up and down arrow buttons moves the selected area up and down, while pressing the left and right arrow buttons moves the selected area to the left and right.

To cancel the procedure and return to the previous display, press the INDEX button.



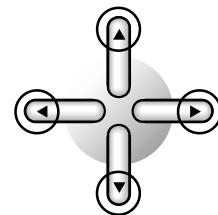
**3** Press the ENLARGE button.

The selected area of the picture is enlarged.  
Press the INDEX button to return to the area selection display.



**4** Scroll around the picture using the up, down, left and right arrow buttons.

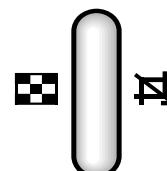
Pressing the up and down arrow buttons scrolls up and down in the picture, while pressing the left and right arrow buttons scrolls left and right.



 **Tip**

- If you press the ROTATE button before the enlarged display, the picture is rotated 90 degrees counterclockwise and this is reflected in photo-album printing only.

**5** Press the INDEX button twice to return to the full-screen display.



**6** Select the picture using the OK/SELECT button.

**OK / SELECT**



 **Tip**

- Even though the image on the display is enlarged, this will not affect the size of the print. Perform the appropriate trimming procedure if you want to print at a larger size.

## D. Picture Index Display

All of the pictures contained on an xD-Picture Card or other media can be displayed in either 4 frame or 9 frame, thumbnail index. This is convenient, for example, when searching for a picture that you want to print.

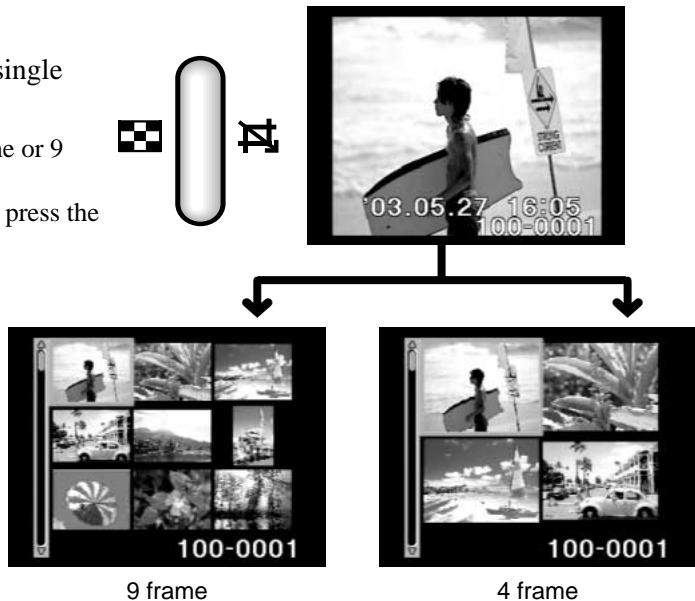
### Tip

- Perform the procedure to switch between a 4 frame and 9 frame thumbnail index in "Basic Setup" (page 63). The explanation in the following procedure uses a 4 frame display.

**1** Press the INDEX button during single picture display.

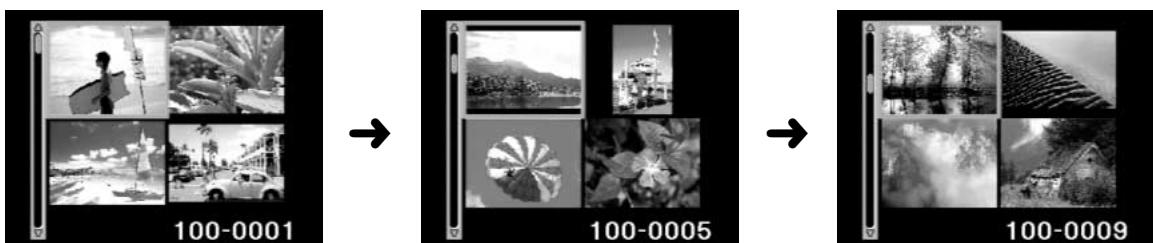
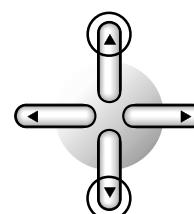
The LCD panel switches to a 4 frame or 9 frame thumbnail index display.

To return to a single picture display, press the ENLARGE button.



**2** Scroll through the picture sets using the up and down arrow buttons.

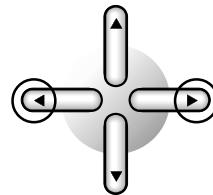
Pressing the down arrow button advances to the next set of pictures, while pressing the up arrow button moves back to the previous set.



**3** Select the desired picture using the left and right arrow buttons.

Pressing the right arrow button moves the selection to the next image, while pressing the left arrow button moves the selection to the previous image.

Pressing the ENLARGE button displays only the selected picture on the screen.



 **Tip**

- If you press the ROTATE button during the index display, the picture is rotated 90 degrees counterclockwise and this is reflected in photo-album printing only.

**4** Select the picture using the OK/SELECT button.

**OK / SELECT**



### E. Selecting the Number of Prints

This procedure is used to select the number of copies to be printed for the picture displayed.

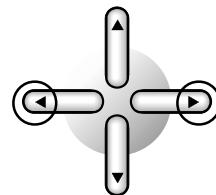
**1** Press the MENU button.

The picture select menu is displayed.

**MENU**



**2** Select the number of copies to be printed with the left or right arrow button.



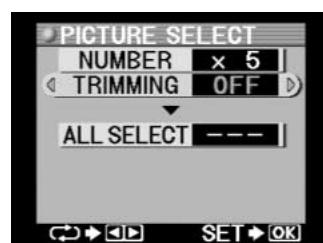
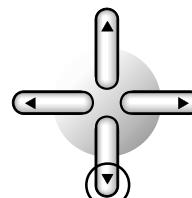
### Tips

- Up to a maximum of 50 copies can be printed.
- When more than 50 copies are selected in DPOF data, the number of prints is set to 50.
- If "0" pictures is designated, either printing is not selected or canceled, and the picture is not printed.
- The setting for the number of prints is ignored in the photo-album mode.

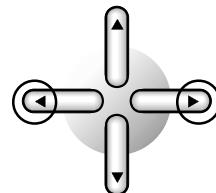
## F. Trimming selected picture (Cropping)

This procedure is used to trim the displayed image.

**1** Select "TRIMMING" by pressing the down arrow button.

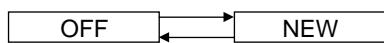


**2** Select trimming with the left or right arrow button.



The display changes in the manner shown below each time the left or right arrow button is pressed.

When trimming has not been selected:

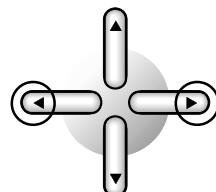


When trimming has already been selected:



Proceed to step 2 of “H. Setting the Trimming Position” (page 92) when not performing trimming, trimming has been previously set or trimming is set in DPOF data.

**3** Select “NEW” with the left or right arrow button.



## G. Selecting the Trimming Size

The trimming size is selected by adjusting the size of the guidelines. The picture is trimmed (cropped) to the size outlined by those guidelines.

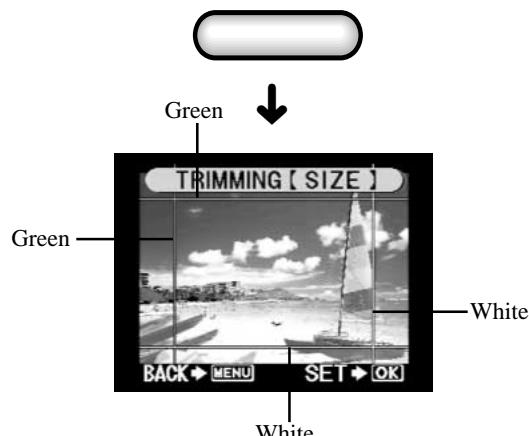
There are 2 methods of selecting the trimming size: “Free Trimming” which enables a 10-position adjustment of each vertical and horizontal guideline and “3:4 Trimming” which maintains a 3:4 vertical:horizontal ratio when selecting the trimming size.

### Free Trimming

**1** Press the OK/SELECT button.

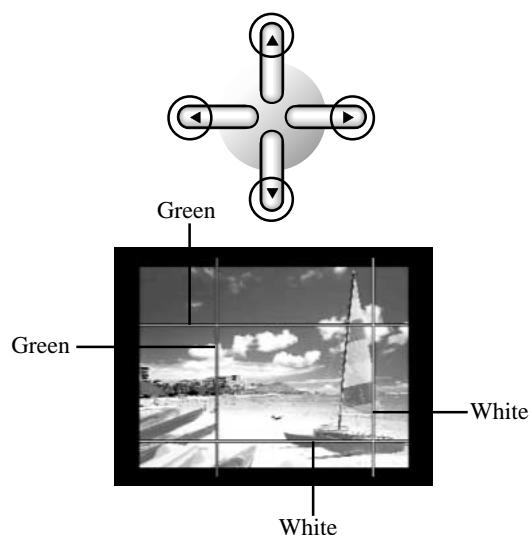
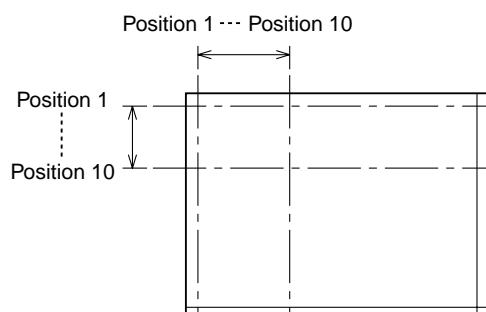
Trimming is now possible.

### OK / SELECT



**2** Adjust the top and left guidelines using the up, down, left and right arrow buttons.

Each guideline can be moved to any point within the 10-position adjustment area. Pressing the up and down arrow buttons adjusts the top guideline, while pressing the left and right arrow buttons adjusts the left guideline.

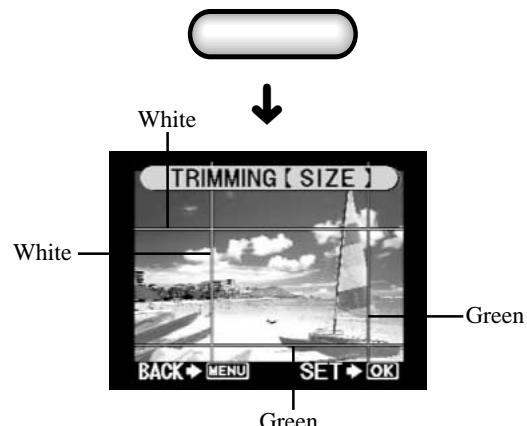


**3** Press the OK/SELECT button.

The bottom and right guidelines can now be adjusted.

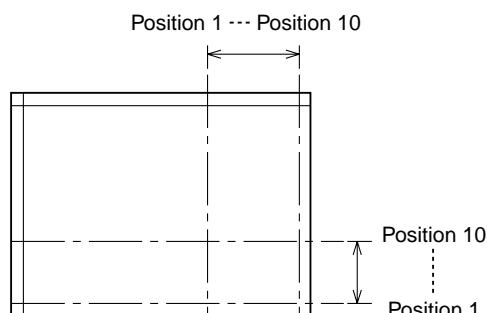
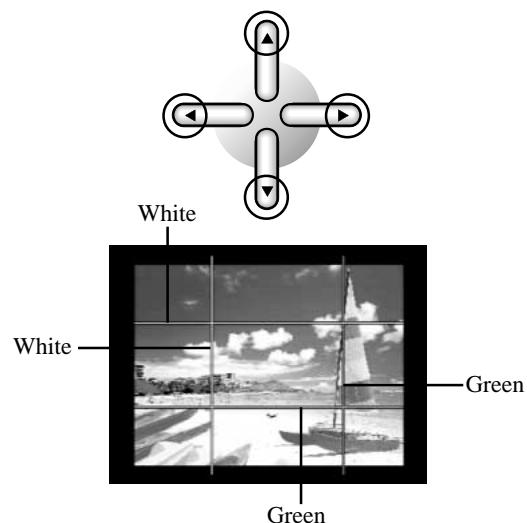
To return to the previous display, press the MENU button.

**OK / SELECT**



**4** Adjust the bottom and right guidelines using the up, down, left and right arrow buttons.

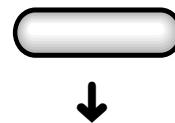
Each guideline can be moved to any point within the 10-position adjustment area. Pressing the up and down arrow buttons adjusts the bottom guideline, while pressing the left and right arrow buttons adjusts the right guideline.



**5** Once the trimming size has been selected, press the OK/SELECT button.

The display changes to that for setting the trimming position.

**OK / SELECT**

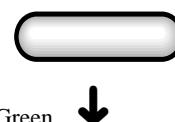


## 3:4 Trimming

1 Press the OK/SELECT button.

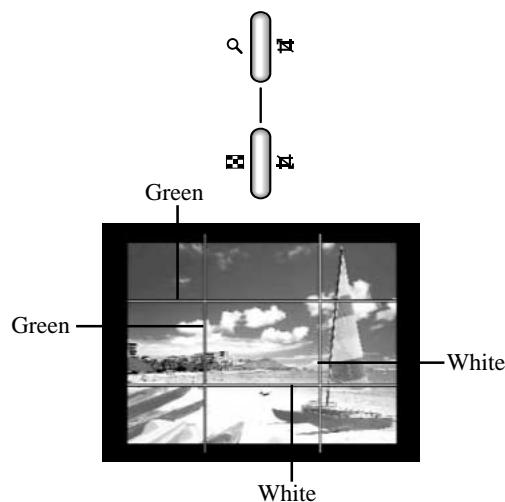
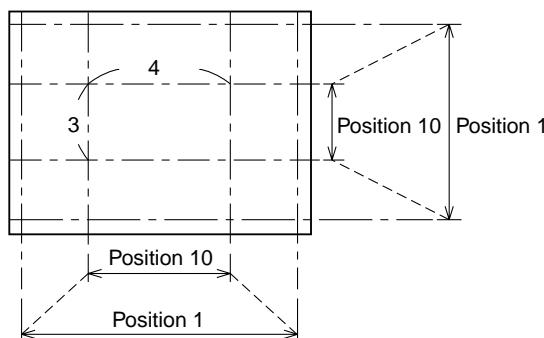
Trimming is now possible.

OK / SELECT



**2** Select the trimming size using the ENLARGE button or the INDEX button.

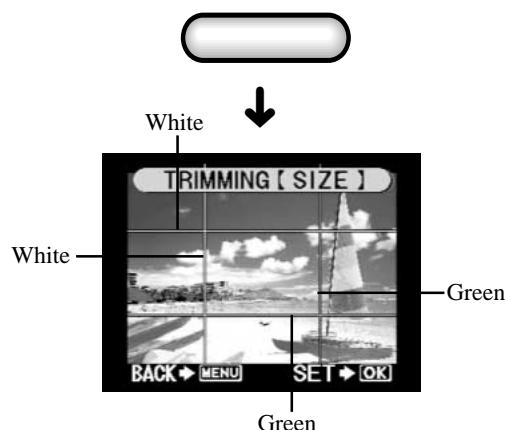
The vertical:horizontal ratio is changed to a 3:4 ratio with 10-position adjustment possible. Pressing the ENLARGE button increases the trimming size, while pressing the INDEX button decreases it.



**3** Once the trimming size has been selected, press the OK/SELECT button.

The display changes to that for setting the right and bottom guide lines. Do not change the trimming size here, however.

**OK / SELECT**



**4** Press the OK/SELECT button.

The display changes to that for setting the trimming position.

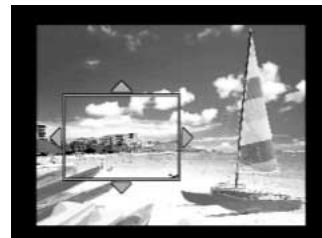
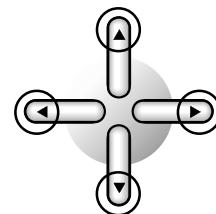
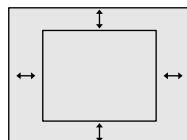
**OK / SELECT**



## H. Setting the Trimming Position

**1** Designate the trimming position with the four arrow buttons.

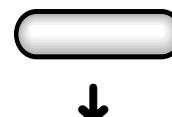
Pressing the up and down arrow button moves the trimming range up and down, while pressing the left and right arrow button moves the trimming range to the left and right.



**2** Press the OK/SELECT button.

This completes setting of trimming.

**OK / SELECT**



The menu is displayed.



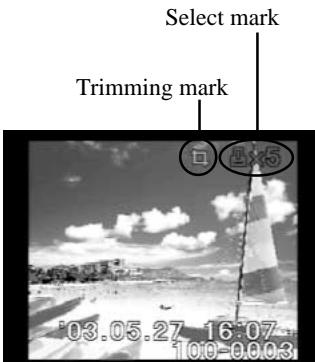
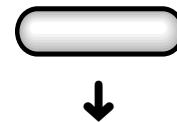
### Tip

- When selecting trimming for multiple pictures, repeat the procedure from "A. Picture Selection" (page 79) for each picture.

**3** Press the OK/SELECT button.

This completes print selection for the displayed picture. Once picture selection and setting have been completed, proceed to “4. Printing Modes” (page 95).

**OK / SELECT**



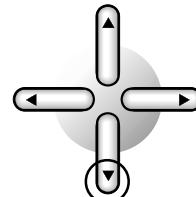
 **Caution**

- Although the picture that has actually been trimmed is not displayed on the LCD panel, the trimming mark is shown.

## ● Printing All Pictures on a Card

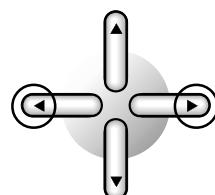
It is convenient to use the “ALL SELECT” function when you want to print out all the image data recorded on a card.

**1** Press the MENU button and the picture select menu will be displayed, then press the down arrow button to select “ALL SELECT”.



**2** Set “SELECT” with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



### Tips

- When “CANCEL” is selected, all print selection, rotation, trimming, number of prints and DPOF data are canceled.
- If after canceling previous selections you wish to use DPOF data, remove and reinsert the xD-Picture Card or PC Card. Note that removing the card will reset setting made with the printer.

**3** Press the OK/SELECT button.

Print selection for all pictures is completed.  
Proceed to “4. Printing Modes” (page 95).

### OK / SELECT



# 4. Printing Modes

The P-440 has five printing modes: STANDARD, CARD, PHOTO-ALBUM, PASSPORT and INDEX. These modes make it possible to change the layout on the paper, print the date, or arrange the pictures using filters.

## ● STANDARD printing

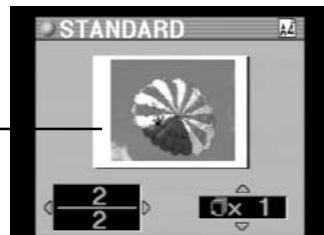
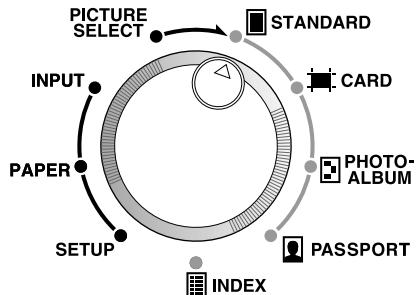
In this mode, you can select a single picture and print it out on an entire sheet of paper (single picture print), print out one picture or up to a maximum of 16 selected multiple pictures on an A4 sheet of paper or divide a picture up into a maximum of 6 prints on A5 wide paper. In addition, you can also print out pictures selected and set in “3. Picture Selection and Setting”.

### Caution

- If you selected “FIT to IMAGE AREA” (page 66), the image will be printed within a 3:4 vertical:horizontal ratio frame which may result in part of the picture not appearing in the print. If you selected “Full Picture”, the full image will be visible at its current vertical:horizontal ratio, but an increased white area (margin) may thus be created.

### A. Standard Selection

- 1 Set the mode selector dial to the STANDARD position.



### Tips

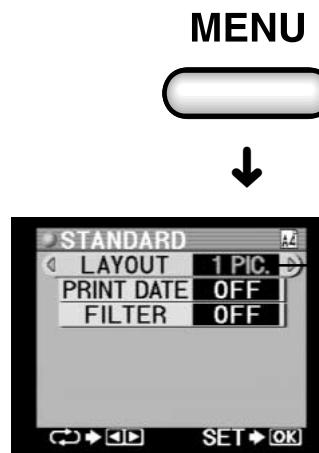
- When multiple pictures have been selected for printing, the last page to be printed is previewed on the LCD panel.
- When the preview is displayed, the pictures can be printed out by pressing the PRINT button.

## B. Selecting Layout Type

The layout of the picture to be printed is selected for the paper set in “2. Paper Selection”.

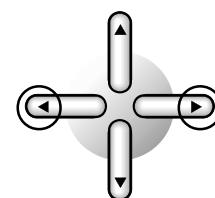
1 Press the MENU button.

The standard printing menu is displayed.

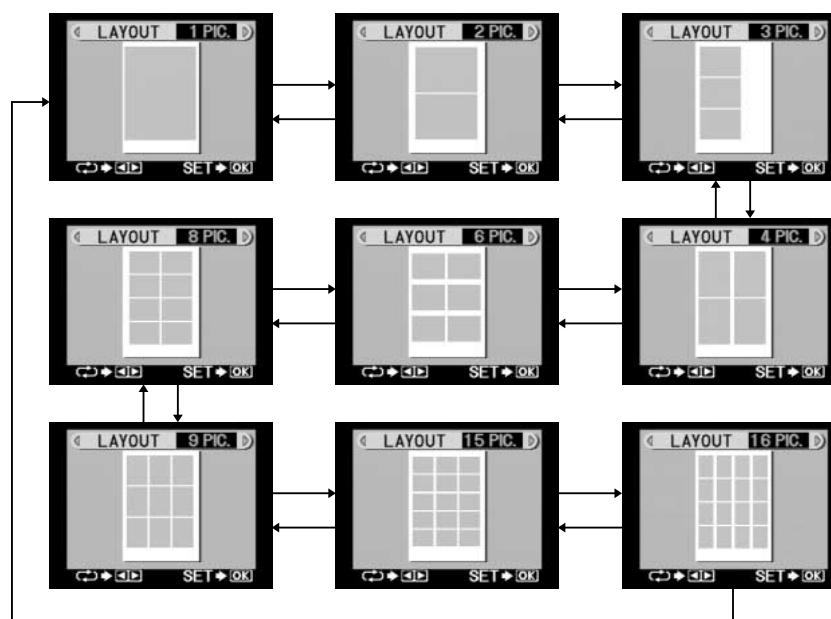


2 Select the layout with the left or right arrow button.

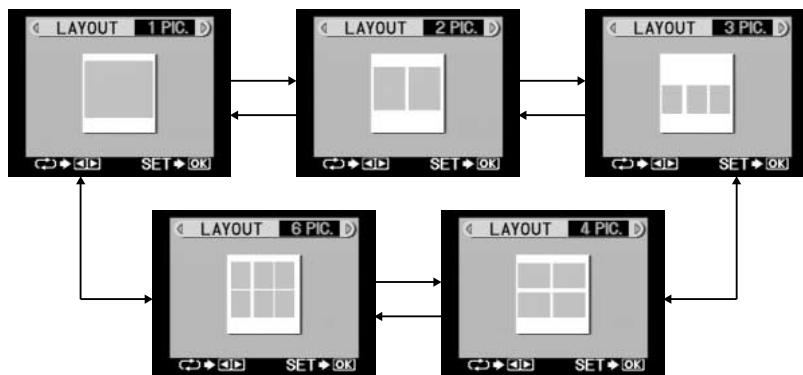
The display changes in the manner shown below each time the left or right arrow button is pressed.



A4:



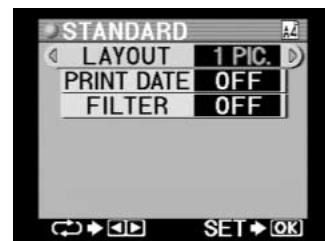
A5 WIDE:



- The picture layout is displayed in gray.

**3** Once the layout has been decided, press the OK/SELECT button.

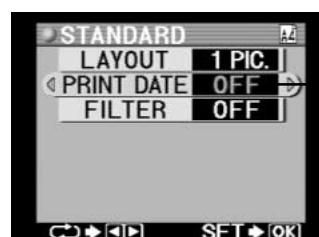
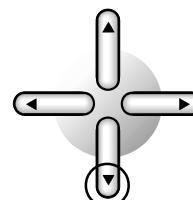
The display returns to the standard printing menu.

**OK / SELECT**

### C. Printing the Date

This procedure is used to designate whether the date and/or time at which the picture was taken will be displayed on the print and, if it will be, whether it will be just the date, just the time or both the date and time.

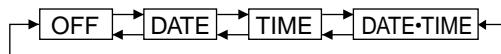
**1** Select “PRINT DATE” by pressing the down arrow button.



The text will turn to green.

**2** Select date printing with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.

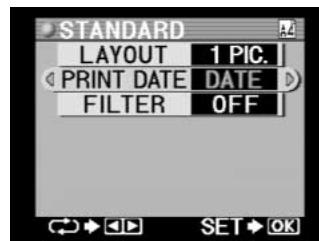
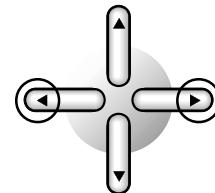


OFF : The date is not printed.

DATE : The date is printed.

TIME : The 24 hour time is printed.

DATE • TIME : Both the date and time are printed.



The date and/or time appears in the lower right corner of the picture when printed.

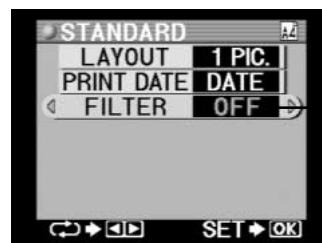
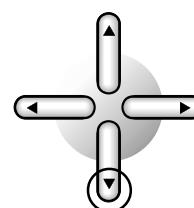
### Tips

- The manner in which the date is displayed can be selected in "Basic Setup" (page 63).
- Although the date and time are not shown in the preview display, if activated, they will appear in the print.

## D. Selecting Filters

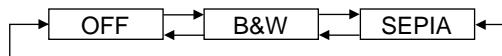
A sepia or black and white filter can be applied to the picture to be printed.

**1** Select "FILTER" with the down arrow button.



**2** Select the filter to be used with the left or right arrow button.

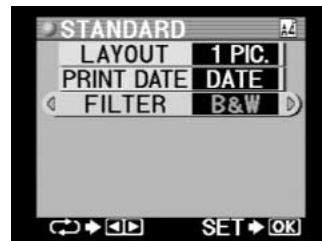
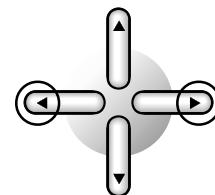
The filter can be selected in the manner shown below each time the left or right arrow button is pressed.



OFF : Filter processing is not performed.

B&W : Pictures are printed in black and white.

SEPIA : Pictures are printed with a sepia tone.

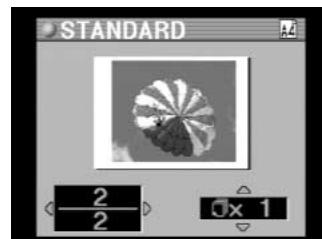


## E. Confirming the Settings

**1** Press the OK/SELECT button.

The display returns to the standard printing preview menu.

## OK / SELECT



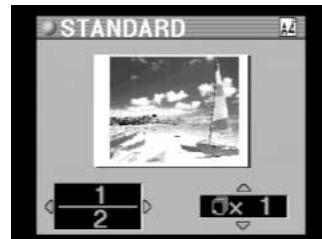
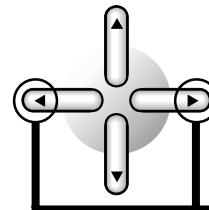
## Tip

- LCD screen will show a preview of the selected picture with any modifications (background, stamp, etc.).

## 2

Review the pictures that have been selected for printing with the left or right arrow button.

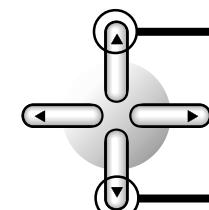
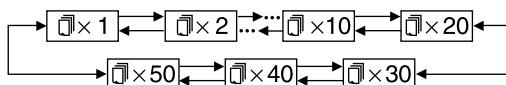
Previews of pictures selected for printing are sequentially displayed each time the left or right arrow button is pressed, making it possible to check pictures before they are printed.



## 3

Select the number of copies to be printed with the up or down arrow button.

The display changes in the manner shown below each time the up or down arrow button is pressed.



### Tip

- Up to a maximum of 50 prints can be designated. The number of prints can be designated one print at a time for 1-9 prints, and in units of 10 prints each for 10 to 50 prints.

## 4

Print the picture.

Proceed to "5. Printing" (page 138).

## ● CARD printing

Use of the special-purpose card paper lets you make cards from a single picture or multiple selected pictures.

Be sure to use the approved P-A4P paper for the “POSTCARD” setting and P-4AL paper for the “4 PRECUT” setting.

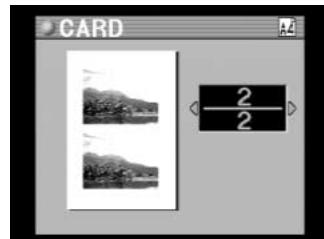
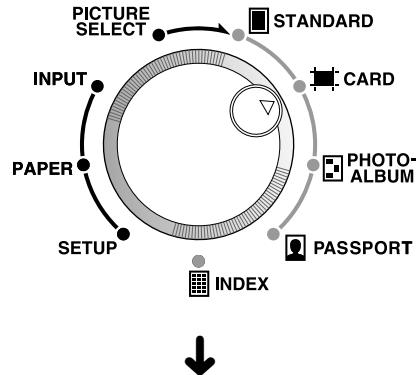
### Caution

- When using postcard paper, the image is scaled to fit the cutout which may result in a portion of the image being cropped.

### A. Card Selection

1 Set the mode selector dial to the CARD position.

A preview of the card to be printed is displayed on the LCD panel.



### Tips

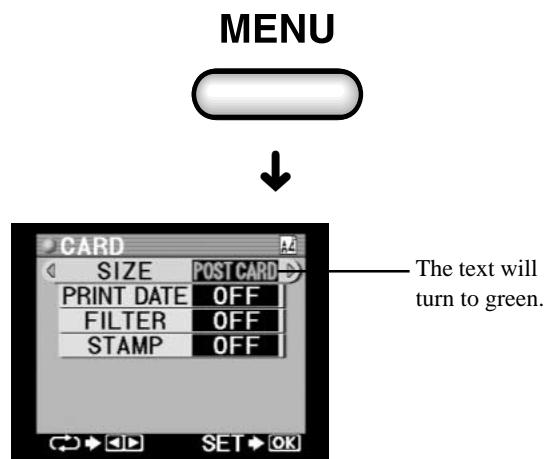
- When multiple pictures are selected for printing, the final page to be printed is displayed.
- A message is displayed when pictures have not been selected or there are no pictures present on the xD-Picture Card or PC Card.
- In the case of creating two (or four) cards of the same picture using a single sheet of paper, set the number of prints with “3. Picture Selection and Setting”(page 79).
- The last sheet printed may have blank areas depending on the number of pictures selected.

## B. Setting the Card Size

Select the card size (layout) of the pictures to be printed for the paper set in “2. Paper Selection”.

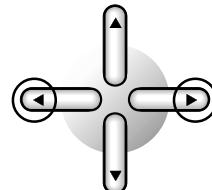
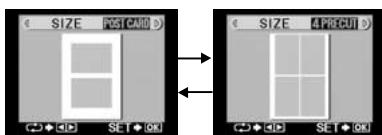
**1** Press the MENU button.

The card printing menu is displayed.



**2** Select the layout with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



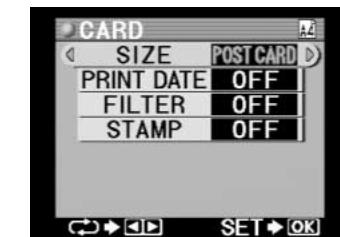
### Tip

- The picture layout is displayed in gray.

**3** Once the card size has been decided, press the OK/SELECT button.

The display returns to the card printing menu.

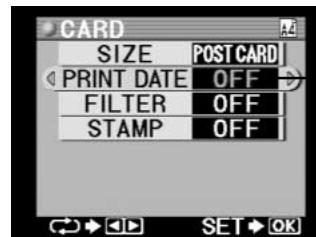
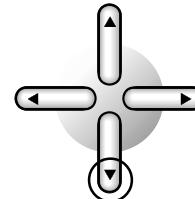
OK / SELECT



## C. Printing the Date

This procedure is used to designate whether the date and/or time at which the picture was taken will be displayed on the print. Also, whether it will be just the date, just the time or both the date and time.

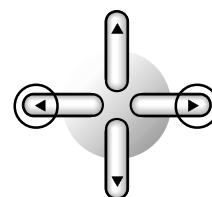
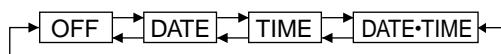
**1** Select “PRINT DATE” by pressing the down arrow button.



The text will turn to green.

**2** Select date printing with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



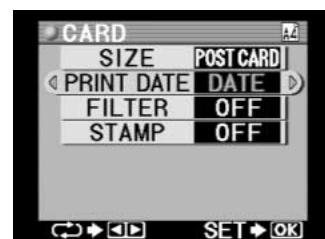
OFF : The date is not printed.

DATE : The date is printed.

TIME : The 24 hour time is printed.

DATE・TIME : Both the date and time are printed.

The date and/or time appears in the lower right corner of the picture when printed.



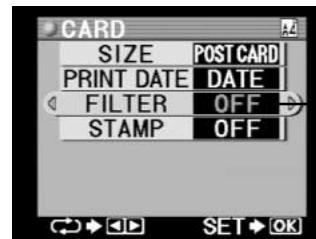
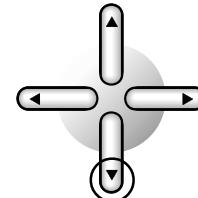
### Tips

- The manner in which the date is displayed can be selected in “Basic Setup” (page 63).
- Although the date and time are not shown in the preview display, if activated, they will appear in the print.

## D. Selecting Filters

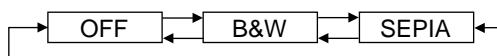
A sepia or black and white filter can be applied to the picture to be printed.

**1** Select “FILTER” by pressing the down arrow button.



**2** Select the filter to be used with the left or right arrow button.

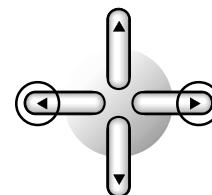
The filter can be selected in the manner shown below each time the left or right arrow button is pressed.



**OFF** : Filter processing is not performed.

**B&W** : Pictures are printed in black and white.

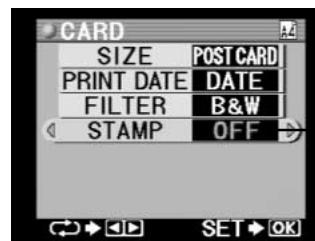
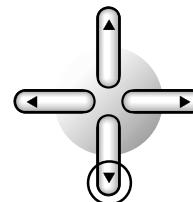
**SEPIA** : Pictures are printed with a sepia tone.



## E. Selecting Stamps

Ten kinds of stamp images stored in the P-440 can be arranged on a card to be printed.

**1** Select “STAMP” by pressing the down arrow button.



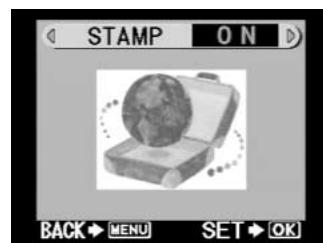
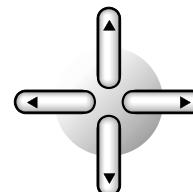
The text will turn to green.

### Caution

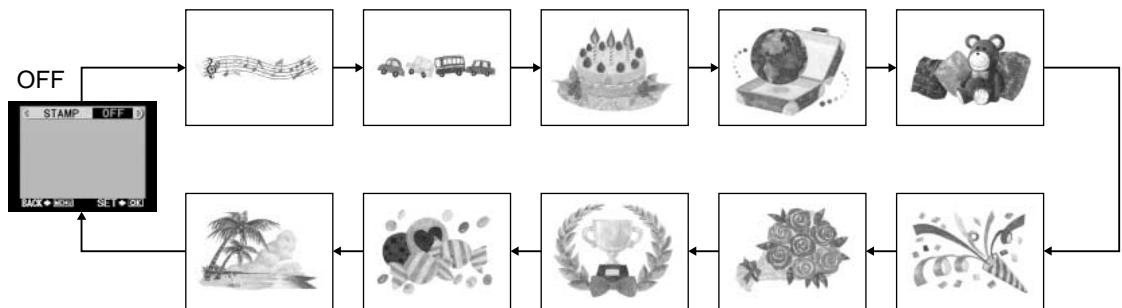
- If multiple pictures have been selected for printing the “STAMP” option is not available.
- To use stamps select, one picture at a time for printing.

.....  
**2** Select the stamp to be used with the left or right arrow button.

A stamp is not printed when “OFF” is designated.



The display change in the manner shown below each time the left or right arrow button is pressed.



**3** Once the stamp to be used has been decided, press the OK/SELECT button.

**OK / SELECT**

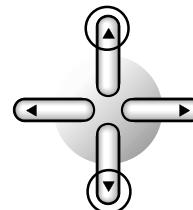
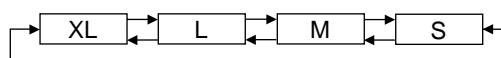


## E-1 Selecting the Stamp Size

This procedure is used to select the size of the stamp to be printed to one of four sizes.

**1** Select the stamp size with the up or down arrow button.

The display changes in the manner shown below each time the up or down arrow button is pressed.



**2** Once the stamp size has been selected, press the OK/SELECT button.

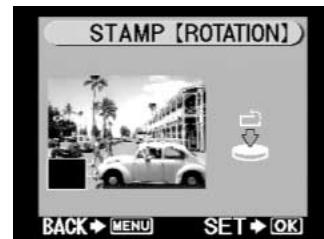
**OK / SELECT**



## E-2 Stamp Rotation

**1** Rotate the picture using the ROTATE button. (The stamp is always positioned facing upward.)

The picture is rotated 90 degrees in a counter-clockwise direction each time the ROTATE button is pressed.



**2** Once the picture has been turned, press the OK/SELECT button.

**OK / SELECT**

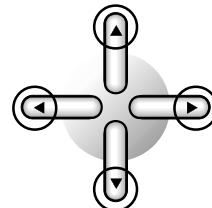


### E-3 Stamp Position

This procedure is used to select on the position where the stamp is to be printed.

**1** Select the position where the stamp is to be arranged with the arrow buttons.

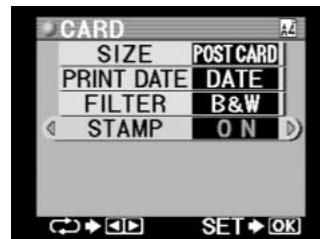
The position of the stamp moves each time the arrow buttons are pressed.



**2** Once the position has been selected, press the OK/SELECT button.

The display returns to the card printing menu.

**OK / SELECT**



## F. Confirming the Settings

### 1 Press the OK/SELECT button.

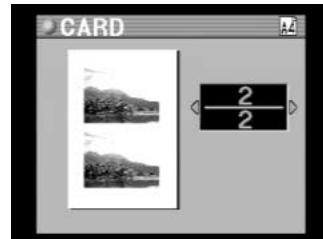
The display returns to the card printing preview menu.

**OK / SELECT**



#### Caution

- The stamp may be clipped if it is positioned too close to an edge.



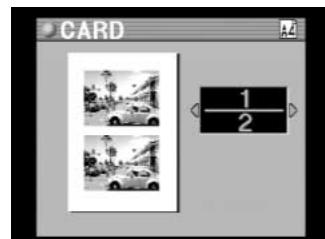
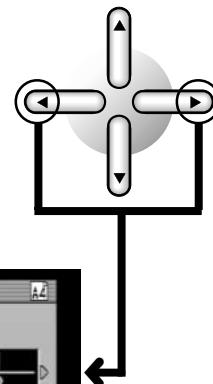
#### Tip

- When a stamp has been selected, the area indicated by the black square surrounded by a white frame indicates the stamp.

### 2

Review the pictures that have been selected for printing with the left or right arrow button.

Previews of pictures selected for printing are sequentially displayed each time the left or right arrow button is pressed, making it possible to check pictures before they are printed.



#### Caution

- Select the number of cards with the picture selection procedure. (The number of prints cannot be designated when the printing mode is set to CARD.)

### 3

Print the picture.

Proceed to "5. Printing" (page 138).

## ●PHOTO-ALBUM printing

This mode is selected when you wish to print out pictures in the form of a photo album. You can also add a background or stamp, or decorate pictures with a frame.

### Caution

- If you selected "FIT to IMAGE AREA" (page 66), the image will be printed within a 3:4 vertical:horizontal ratio frame which may result in part of the picture not appearing in the print. If you selected "Full Picture", the full image will be visible at its current vertical:horizontal ratio, but an increased white area (margin) may thus be created.

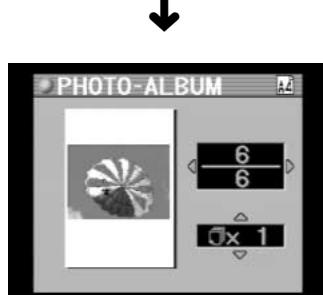
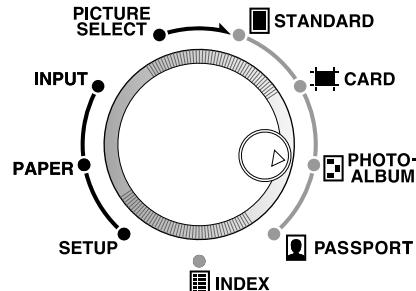
### Tip

- Setting of the number of prints performed in "3. Picture Selection and Setting" (page 79) is not reflected in the album-print mode. One set of picture data is always printed out for each print.

### A. Album Selection

**1** Set the mode selector dial to the PHOTO-ALBUM position.

A preview of one picture to be printed is displayed on the LCD panel.



### Tips

- When a picture has already been selected, that picture is displayed in the form of a single print.
- A message is displayed when the image data on the card cannot be read.
- Although the date and time are not shown in the preview display, they will appear in the print.

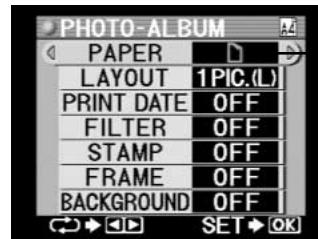
## B. Paper Orientation

This mode is used to select the paper orientation of the photo album page to either horizontal (landscape) or vertical (portrait).

**1** Press the MENU button.

The photo-album printing menu is displayed.

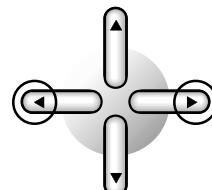
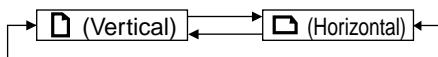
**MENU**



The text will turn to green.

**2** Select the paper orientation with the left or right arrow button.

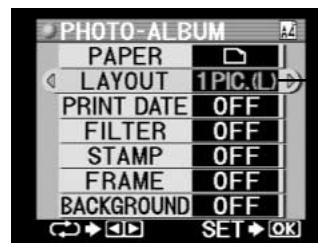
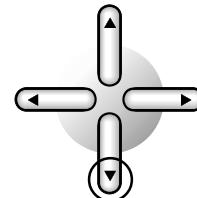
The display changes in the manner shown below each time the left or right arrow button is pressed.



## C. Selecting Layout Type

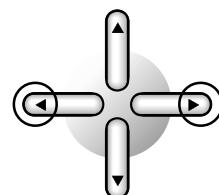
This procedure is used to select the layout of the pictures to be printed using the page orientation selected in procedure B.

**1** Select “LAYOUT” by pressing the down arrow button.



The text will turn to green.

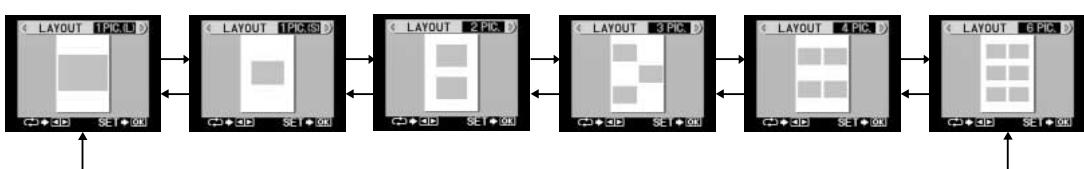
**2** Select the layout with the left or right arrow button.



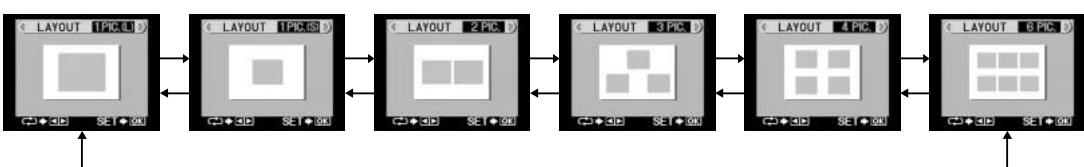
The display changes in the manner shown below each time the left or right arrow button is pressed.

LCD Display

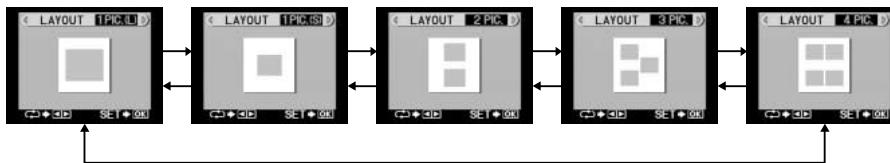
A4/Vertical (Portrait):



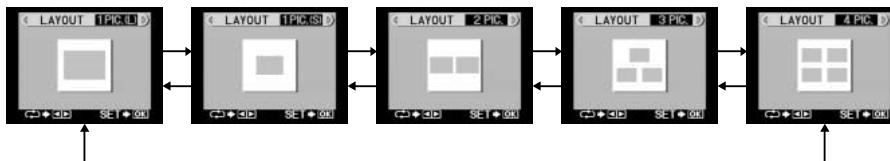
A4/Horizontal (Landscape):



A5 WIDE/Vertical (Portrait):

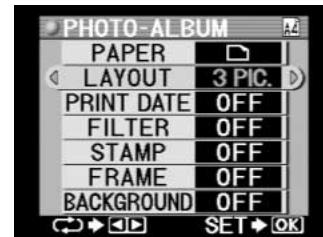
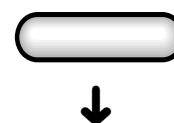


A5 WIDE/Horizontal (Landscape):



**3** Once the layout has been selected, press the OK/SELECT button.

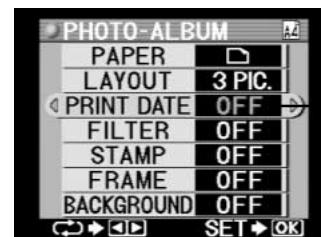
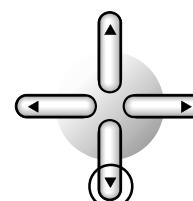
The display returns to the photo-album printing menu.

**OK / SELECT**

#### D. Printing the Date

This procedure is used to designate whether the date and/or time at which the picture was taken will be displayed on the print. Also, whether it will be just the date, just the time or both the date and time.

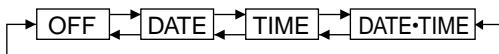
**1** Select "PRINT DATE" by pressing the down arrow button.



The text will turn to green.

**2** Select date printing with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



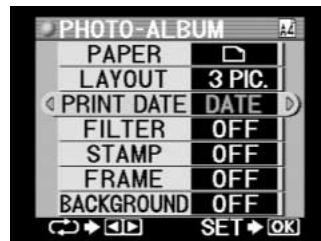
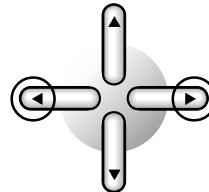
OFF : The date is not printed.

DATE : The date is printed.

TIME : The 24 hour time is printed.

DATE • TIME : Both the date and time are printed.

The date and/or time appears in the lower right corner of the picture when printed.



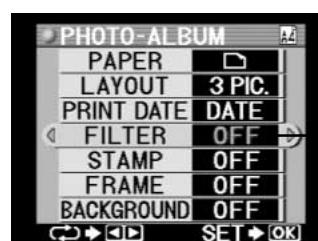
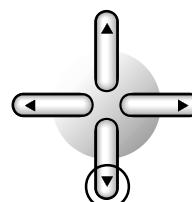
### Tip

- The manner in which the date is displayed can be selected in "Basic Setup" (page 63).

## E. Selecting Filters

A sepia or black and white filter can be applied to the pictures to be printed.

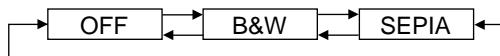
**1** Select "FILTER" with the down arrow button.



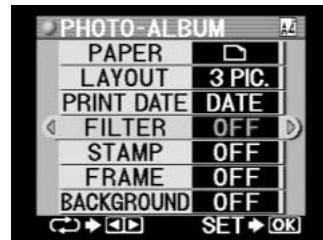
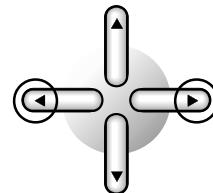
The text will turn to green.

**2** Select the filter to be used with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



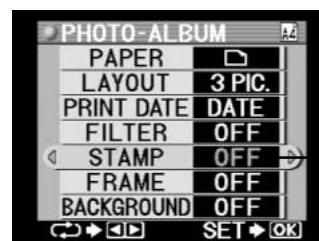
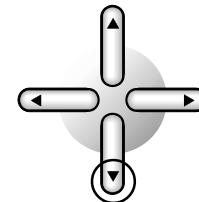
OFF : Filter processing is not performed.  
 B&W : Pictures are printed in black and white.  
 SEPIA : Pictures are printed with a sepia tone.



## F. Selecting Stamps

Ten kinds of stamp images stored in the P-440 can be arranged in the photo album.

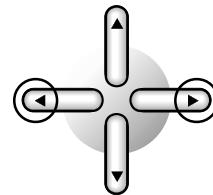
**1** Select “STAMP” by pressing the down arrow button.



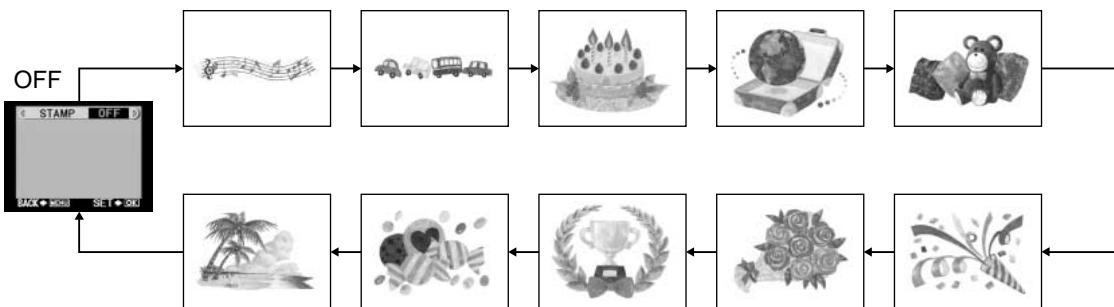
The text will turn to green.

**2** Select the stamp to be used with the left or right arrow button.

A stamp is not printed when “OFF” is designated.



The display changes in the manner shown below each time the left or right arrow button is pressed.



**3** Once the stamp to be used has been selected, press the OK/SELECT button.

**OK / SELECT**

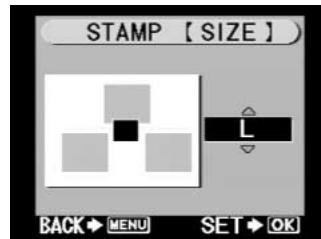
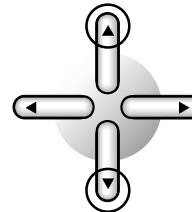
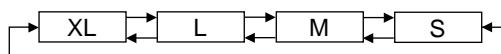


## F-1 Selecting the Stamp Size

This procedure is used to select the size of the stamp to be printed to one of four sizes.

**1** Select stamp size with the up or down arrow button.

The display changes in the manner shown below each time the up or down arrow button is pressed.



**2** Once the stamp size has been selected, press the OK/SELECT button.

**OK / SELECT**

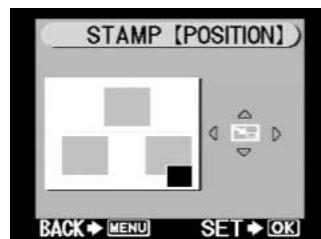
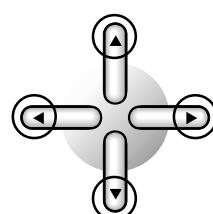


## F-2 Stamp Position

This procedure is used to select on the position where the stamp is to be printed.

**1** Select the position where the stamp is to be arranged with the arrow buttons.

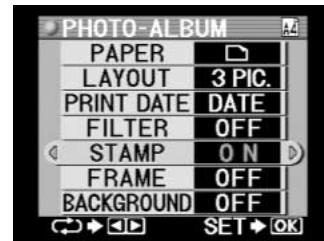
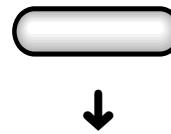
The position of the stamp moves each time the arrow buttons are pressed.



**2** Once the position has been selected, press the OK/SELECT button.

The display returns to the photo-album printing menu.

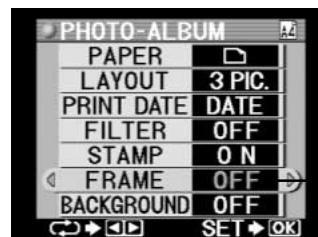
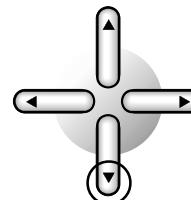
**OK / SELECT**



## G. Selecting Frames

This procedure is used to select a frame for each picture. Frames are pre-registered in the P-440.

**1** Select “FRAME” by pressing the down arrow button.

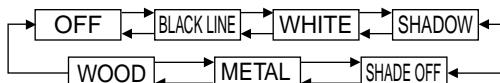


The text will turn to green.

## 2

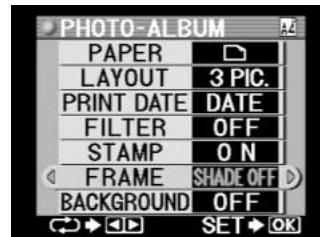
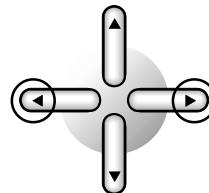
Select the frame using the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



- OFF : No frame is printed.
- BLACK LINE : A black line is printed around the picture.
- WHITE : A white line is printed around the picture.
- SHADOW : The picture is shadowed.
- SHADE OFF : The edges of the picture are obscured.
- METAL : A metal frame is placed around the picture.
- WOOD : A wood frame is placed around the picture.

\* The picture at right is shown after “Shade off” has been selected for the type of frame.



### Caution

- The frame overlaps a portion of the picture, and the overlapping portion of the picture is cut out.

## H. Selecting Background

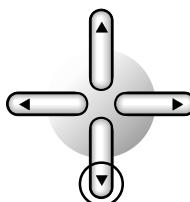
Background selection is enabled if background images have been registered.

### Tip

- Refer to “Background Setup” (page 48) for information on registering a picture background.

## 1

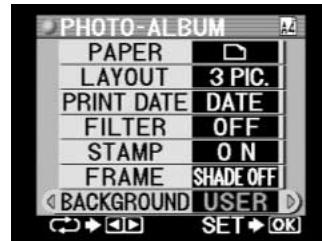
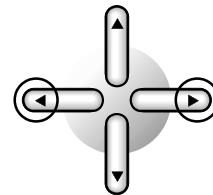
Select “BACKGROUND” by pressing the down arrow button.



The text will turn to green.

**2** Select a background using the left or right arrow button.

A background is not shown if “OFF” is selected. If “USER” is selected, the background pictures registered in “Background Setup” (page 48) can be used.



“USER”: A user registered background is used filling the entire sheet.



“TILE”: Small pictures are arranged in the form of tiles over the entire sheet of paper at the same color density. The P-440 contains five types of tiles.



“TILE (gradation)”: Small pictures are arranged in the form of tiles over the entire sheet of paper while gradually changing the color density. The P-440 contains five types of tiles.



## H-1 Background Rotation

If a “USER” registered background has been selected, the background can be rotated.

### Caution

- This procedure cannot be performed if “TILE” or “TILE (gradation)” has been designated.

**1** Select the background orientation using the ROTATE button.

The picture is rotated 90 degrees in a counter-clockwise direction each time the ROTATE button is pressed.



### Caution

- Background pictures are registered in A4 size. When using A5 paper, the center of the background is used.
- The top, bottom or sides of the background picture may be cut off when the background picture is rotated if it does not match the paper setting.
- The picture cannot be rotated when “TILE” is designated for the background.

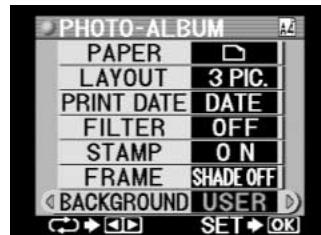
## H-2 Background Designation

This procedure completes background designation.

**1** Press the OK/SELECT button.

The display returns to the photo-album printing menu.

### OK / SELECT

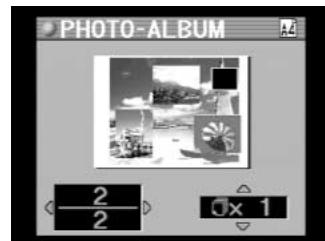


## I. Confirm the Setting

**1** Press the OK/SELECT button.

The display returns to the photo-album printing preview menu.

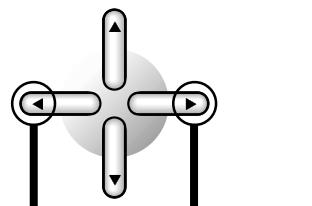
**OK / SELECT**



.....

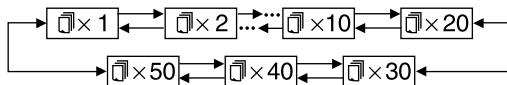
**2** Review the pictures that have been selected for printing with the left or right arrow button.

Previews of pictures selected for printing are sequentially displayed each time the left or right arrow button is pressed, making it possible to check pictures before they are printed.

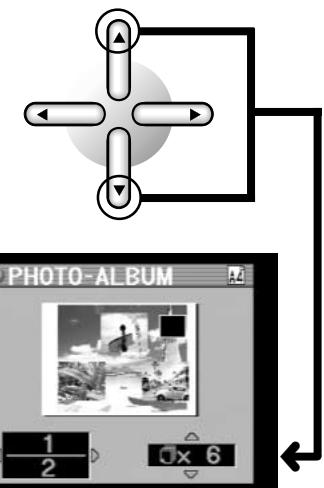


### 3 Select the number of copies with the up or down arrow button.

The display changes in the manner shown below each time the up or down arrow button is pressed.



In the case of photo-album printing, be sure to check the vertical (portrait) and horizontal (landscape) layout of the pictures (page 80).



### Tips

- Up to a maximum of 50 prints can be designated.
- The number of prints can be designated one print at a time for 1-9 prints, and in units of 10 prints each for 10 to 50 prints.

### 4 Print the picture.

Proceed to “5. Printing” (page 138).

## ●PASSPORT printing

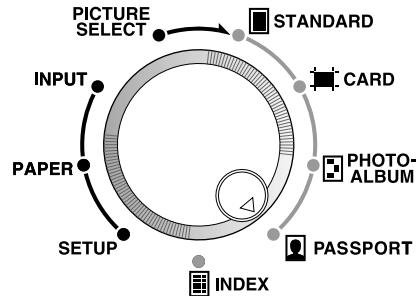
In this mode, you can place one picture or reserved multiple pictures for printing onto one sheet of paper.

### Caution

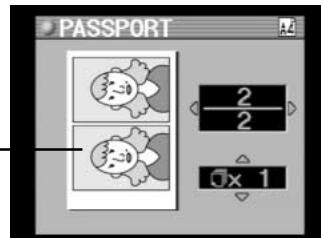
- Paper types that can be used for PASSPORT printing are only A4 and A6 WIDE. A5 WIDE paper cannot be used for PASSPORT printing. When performing PASSPORT printing, be sure to set A4 or A6 WIDE paper and select this paper in "2. Paper Selection" (page 78).

### A. Passport Selection

1 Set the mode selector dial to the PASSPORT position.



If a picture has been selected, a preview is displayed on the LCD panel.



### Tips

- When multiple pictures have been selected for printing, the last page to be printed is previewed on the LCD panel.
- When the preview is displayed, the pictures can be printed out by pressing the PRINT button.

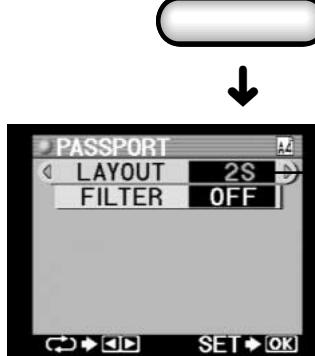
## B. Selecting Layout Type

The layout of the picture to be printed is selected for the paper set in “2. Paper Selection” (page 78).

**1** Press the MENU button.

The passport printing menu is displayed.

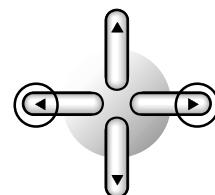
**MENU**



The text will turn to green.

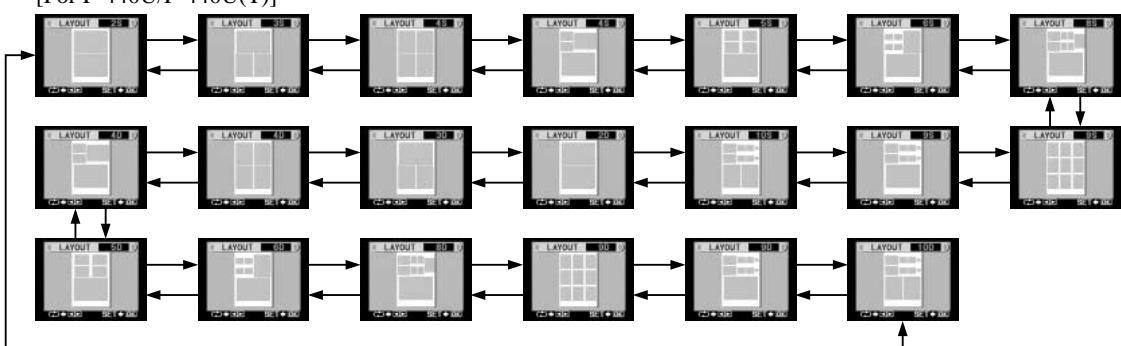
**2** Select the layout with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.

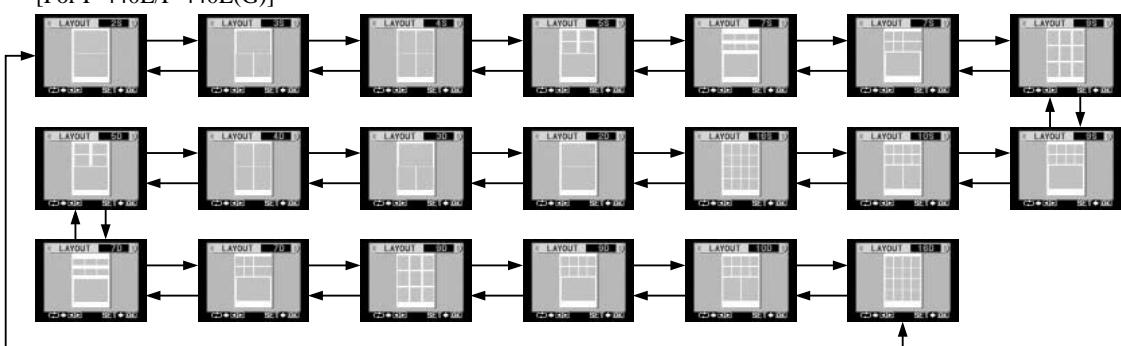


A4:

[For P-440U/P-440U(T)]

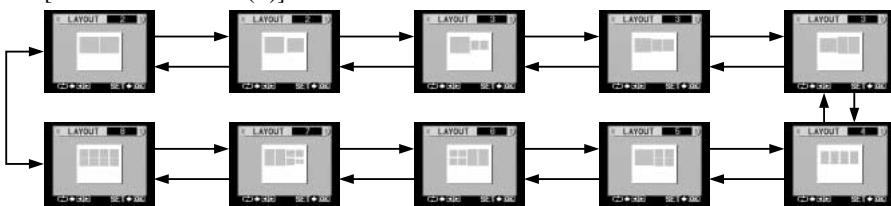


[For P-440E/P-440E(G)]

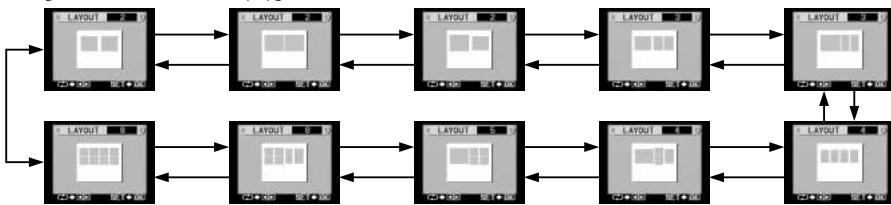


A6 WIDE:

[For P-440U/P-440U(T)]



[For P-440E/P-440E(G)]



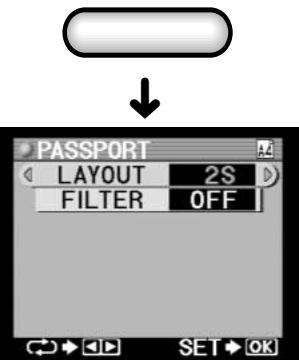
### Tips

- The picture layout is displayed in gray.
- For jobs with "S" indicated on the display, a reserved image is printed onto a full sheet of paper.
- For jobs with "D" indicated on the display, multiple reserved images are printed onto a single sheet of paper.
- The options of layout types can be selected may differ depending on the region.

**3** Once the layout has been decided, press the OK/SELECT button.

The display returns to the passport printing menu.

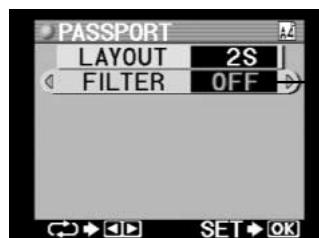
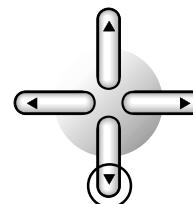
**OK / SELECT**



### C. Selecting Filters

A sepia or black and white filter can be applied to the picture to be printed.

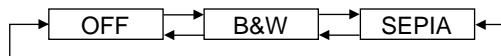
**1** Select "FILTER" with the down arrow button.



The text will turn to green.

## 2 Select the filter to be used with the left or right arrow button.

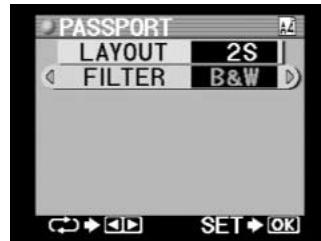
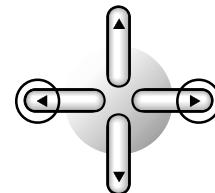
The filter can be selected in the manner shown below each time the left or right arrow button is pressed.



OFF : Filter processing is not performed.

B&W : Pictures are printed in black and white.

SEPIA : Pictures are printed with a sepia tone.

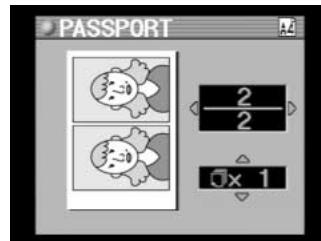


## D. Confirming the Settings

### 1 Press the OK/SELECT button.

The display returns to the passport printing preview menu.

### OK / SELECT



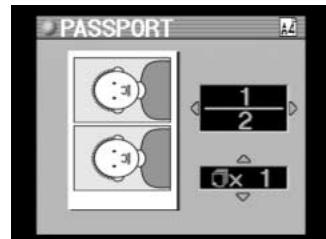
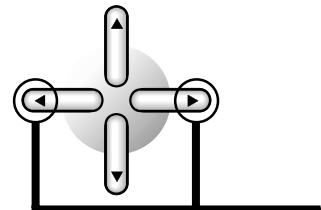
## Tips

- When pictures to be printed have already been selected, a preview that is enabled by the designation performed here is displayed on the LCD panel.
- A picture shot vertically may be displayed upside down in the preview display depending on the orientation of the camera at the time of shooting.

## 2

Review the pictures that have been selected for printing with the left or right arrow button.

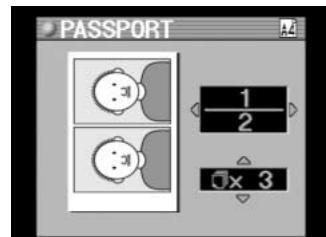
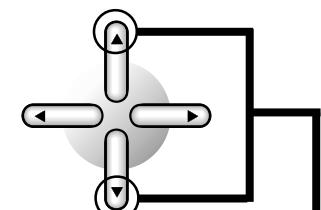
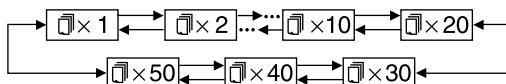
Previews of pictures selected for printing are sequentially displayed each time the left or right arrow button is pressed, making it possible to check pictures before they are printed.



## 3

Select the number of copies to be printed with the up or down arrow buttons.

The display changes in the manner shown below each time the up or down arrow button is pressed.



### Tips

- Up to a maximum of 50 prints can be designated.
- The number of prints can be designated one print at a time for 1-9 prints, and in units of 10 prints each for 10 to 50 prints.

## 4

Print the picture.

Proceed to "5. Printing" (page 138).

## ●INDEX printing

This mode is selected when you want to print out thumbnail images of all pictures recorded on a xD-Picture Card or other type of memory card. This is convenient when you have not decided which pictures you want to print or when you want to obtain a list of image data.

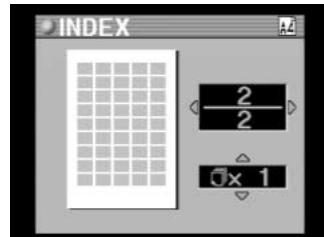
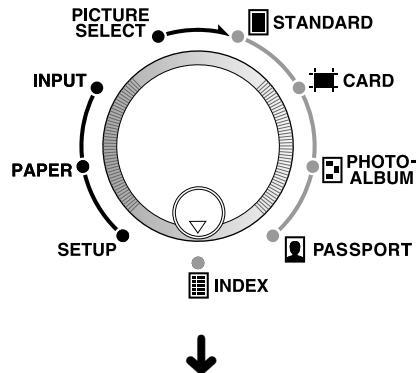
### Tip

- All pictures are printed both when DPOF data is recorded on the xD-Picture Card or PC Card and when pictures have been selected.

### A. Index Selection

**1** Set the mode selector dial to the INDEX position.

All picture data in the card is displayed in the form of gray squares on the LCD panel.



### Tips

- When the prints extended over multiple pages, only the last page is displayed.
- A message is displayed when xD-Picture Card or PC Card is not inserted properly, or when the image data on the card cannot be read.

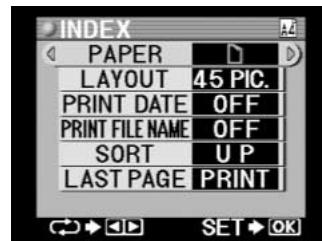
## B. Paper Orientation

This procedure is used to select paper orientation in order to select whether the index is to be produced using paper in the vertical (portrait) or horizontal (landscape) direction.

**1** Press the MENU button.

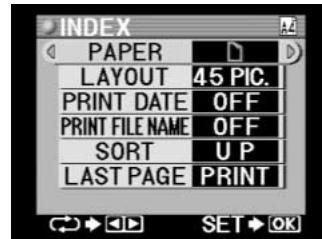
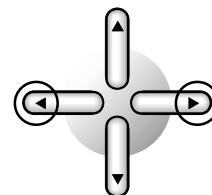
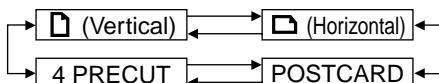
The index printing menu is displayed with “PAPER” selected.

**MENU**



**2** Select paper orientation with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



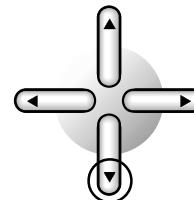
### Caution

- “POSTCARD” and “4 PRECUT” will not be available if the paper to be used is set to “A5 wide-size standard paper”.
- If you select “POSTCARD” or “4 PRECUT”, the images will be automatically printing out onto paper that has a horizontal orientation. Even if the vertical orientation setting is selected, the images will be force-printed onto horizontally oriented paper.
- A6 WIDE paper cannot be used for index printing.

## C. Selecting Layout Type

This procedure is used to select the layout of pictures to be printed for the selected paper orientation in step 2 of “B. Paper Orientation”.

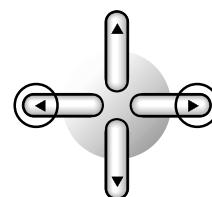
**1** Select “LAYOUT” by pressing the down arrow button.



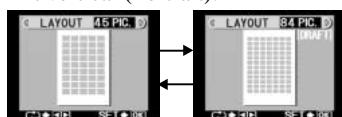
The text will turn to green.

**2** Select the layout (number of pictures on one page) with the left or right arrow button and then press the OK/SELECT button.

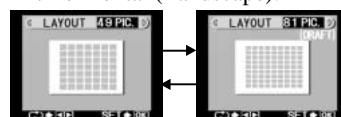
The display changes in the manner shown below each time the left or right arrow button is pressed.



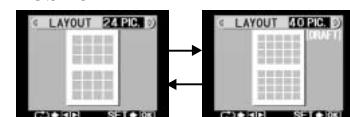
A4/Vertical (Portrait):



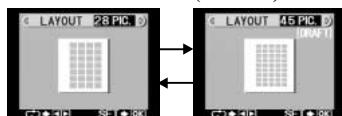
A4/Horizontal (Landscape):



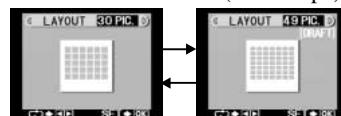
POSTCARD



A5 WIDE/Vertical (Portrait):



A5 WIDE/Horizontal (Landscape):



4 PRECUT



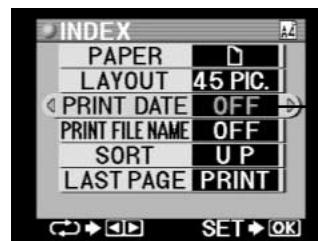
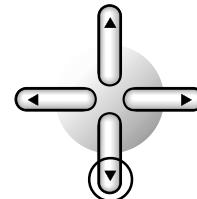
### Caution

- INDEX printing may take some time. Printing can be performed relatively quickly in the case of 84, 81, 45 or 49 pictures.
- If the vertical:horizontal ratio of the original picture is reduced to a ratio of 3:4, a portion of the picture may be cut out.

## D. Printing the Date

This procedure is used to designate whether the date or time at which the picture was taken will be displayed on the print and, if it will be, whether it will be the date or time.

**1** Select “PRINT DATE” using the down arrow button.



The text will turn to green.

**2** Designate how the date is printed using the left and right arrow buttons.

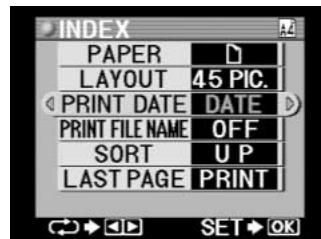
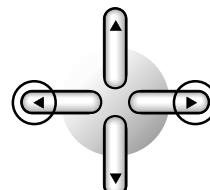
The display changes as shown below each time the left or right arrow button is pressed.



OFF : The date is not printed.

DATE : The date is printed.

TIME : The 24 hour time is printed.



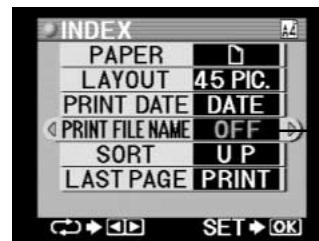
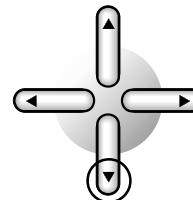
### Tip

- If both PRINT DATE and PRINT FILE NAME are set, the date and the file name are printed in the positions shown below depending on the selected paper size and layout.
  - A4 vertical/84 pictures: Only the file name is printed at the bottom of the image.
  - A4 vertical/45 pictures: The file name is printed at the upper left of the image, and the date or time is printed at the lower right.
  - A4 horizontal/81 pictures: Only the file name is printed at the bottom of the image.
  - A4 horizontal/49 pictures: The file name is printed at the upper left of the image, and the date or time is printed at the lower right.
  - A5 WIDE vertical/45 pictures: Only the file name is printed at the bottom of the image.
  - A5 WIDE vertical/28 pictures: The file name is printed at the upper left of the image, and the date or time is printed at the lower right.
  - A5 WIDE horizontal/49 pictures: Only the file name is printed at the bottom of the image.
  - A5 WIDE vertical/30 pictures: The file name is printed at the upper left of the image, and the date or time is printed at the lower right.
  - Postcard: Only the file name is printed at the bottom of the image regardless of the selected layout.
  - 4 precut: Only the file name is printed at the bottom of the image regardless of the selected layout.

## E. Print File Name

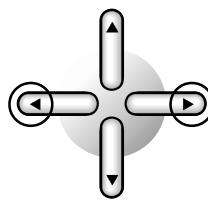
This procedure is used to designate whether or not the file name will be displayed on the print.

**1** Select “PRINT FILE NAME” using the down arrow button.



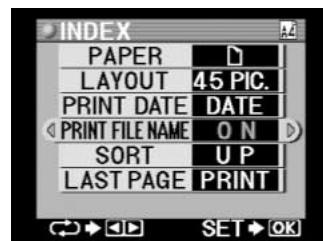
**2** Select whether or not the file name will be printed using the left or right arrow button.

The display changes as shown below each time the left or right arrow button is pressed.



OFF : The file name is not printed.

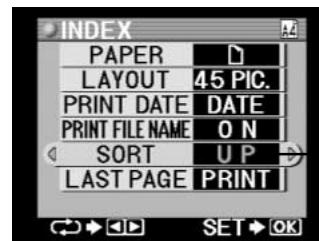
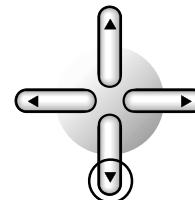
ON : The file name is printed.



## F. Designation of Picture Printing Order

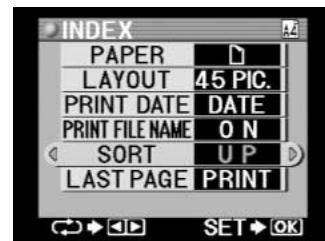
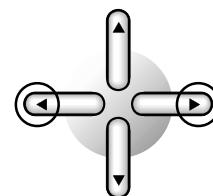
This procedure is used to select the order in which pictures to be printed are arranged.

**1** Select “SORT” by pressing the down arrow button.



**2** Select the order of pictures with the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



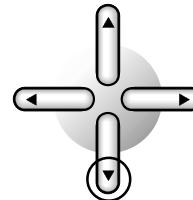
### Tip

- When “UP” is selected, the order of pictures is changed so that pictures are printed starting from the lowest number (oldest picture), and when “DOWN” is selected, the order of pictures is changed so that pictures are printed starting from the largest number.

## G. Last Page Processing Designation

In the case of index printing, there are times when only a small number of pictures are printed on the last page. When this occurs, this setting can be useful for setting the printer to not print the last page, thereby saving on paper and ink ribbon costs.

**1** Select “LAST PAGE” by pressing the down arrow button.



The text will turn to green.

### Caution

- When the number of pages to be printed is “1”, “LAST PAGE” cannot be selected. Proceed to step 3 of “H. Confirming the Setting” (page 136).

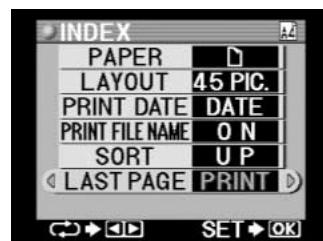
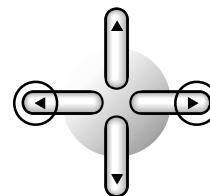
**2** Select whether or not the last page is to be printed by pressing the left or right arrow button.

The display changes in the manner shown below each time the left or right arrow button is pressed.



PRINT : The last page is printed.

Don't PRINT : The last page is not printed.

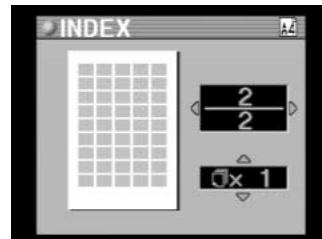


## H. Confirming the Setting

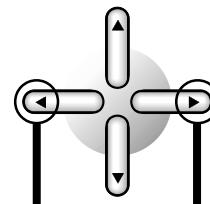
**1** Press the OK/SELECT button.

The display returns to the index printing preview menu.

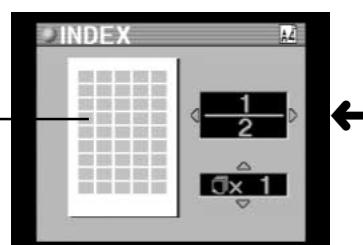
**OK / SELECT**



.....  
**2** Review the number of pictures that have been selected for printing with the left or right arrow button.



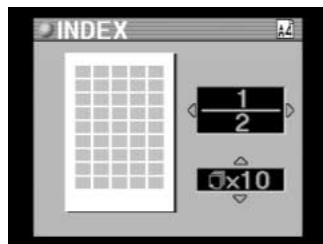
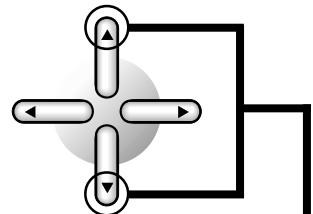
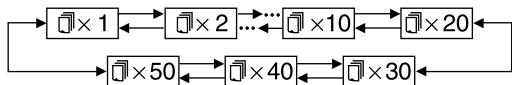
Pictures not displayed in the INDEX mode, but rather a preview of the pictures is displayed using gray squares.



### 3

Select the number of copies with the up and down arrow buttons.

The display changes in the manner shown below each time the up or down arrow button is pressed.



#### Tips

- Up to a maximum of 50 prints can be designated.
- The number of prints can be designated one print at a time for 1-9 prints, and in units of 10 prints each for 10 to 50 prints.

### 4

Print the picture.

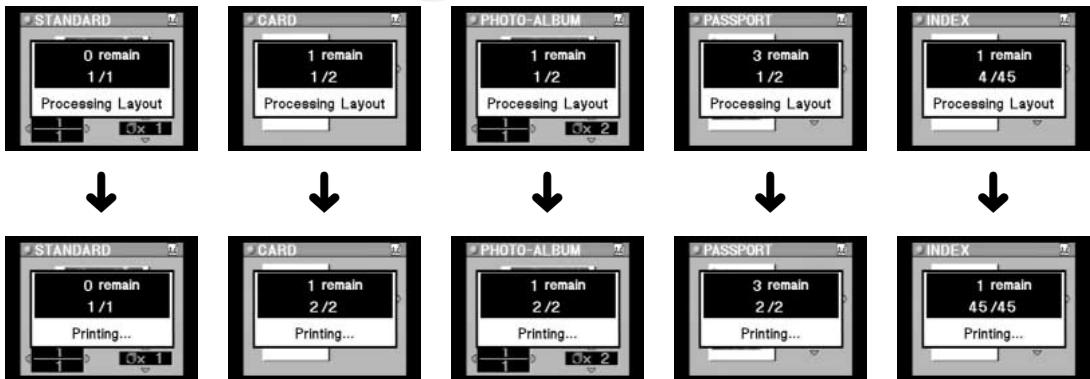
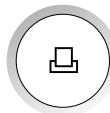
Proceed to “5. Printing” (page 138).

# 5. Printing

The next step is to print pictures selected for printing. Before performing printing, recheck the settings made for paper usage and pictures.

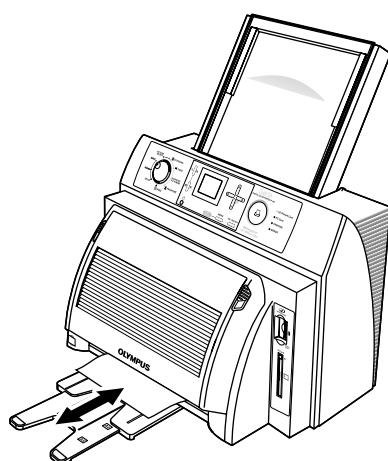
1 Press the PRINT button.

Printing is executed.



## Caution

- The time required for printing varies according to the picture size and compression ratio of the digital camera used to take the pictures.
- Do not turn off the power during printing.
- Do not open the printer cover while printing is in progress.
- Do not take out the xD-Picture Card or PC Card while printing is in progress. The xD-Picture Card or PC Card may be damaged and no longer be able to be used.
- Do not take out the paper cassette while printing is in progress. Also, do not touch the paper.
- The PRINT button is enabled during preview in each mode (STANDARD, CARD, PHOTO-ALBUM, PASSPORT and INDEX).
- The paper will start to come out of the printer during printing, but do not pull out the paper. Wait until the paper has been automatically discharged onto the paper output tray.



## Tips

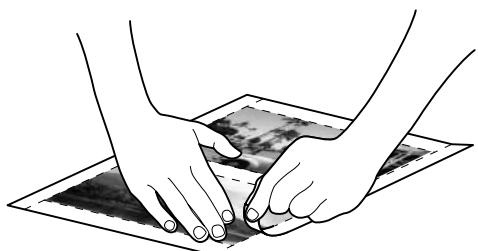
- The "PRINTING" lamp lights when printing is in progress.
- Continuously press the MENU/PRINT Cancel button to cancel printing. When print cancellation is accepted, the xD-Picture Card, PC Card and PRINTING access indicators flash. At this time, the message "Printing will Stop After this Paper" is displayed on the LCD panel, and printing stops after the current sheet of paper is printed out normally.
- If the printer runs out of paper or ink ribbon after the PRINT button has been pressed, a message is displayed and printing is stopped. Install paper or ink ribbon and then press the PRINT button to resume printing.
- Since printing is performed by using one color each of Y (yellow), M (magenta) and C (cyan) and an overcoating, the printer head passes back and forth over the paper four times to print one color print.



## Caution

- When tearing off postcard paper (P-A4P) or L size paper (P-A4L), first bend along the vertical scored lines and then tear off both ends. Next, bend along the remaining scored lines and tear off. The paper cannot be torn off cleanly unless folds are firmly made in the paper.

① Carefully bend along the vertical scored lines on the top and bottom.      ② Tear the paper vertically.



③ Carefully bend along the horizontal scored lines on the top and bottom.      ④ Tear the paper horizontally.



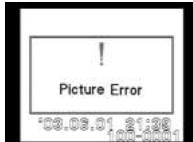
# Troubleshooting

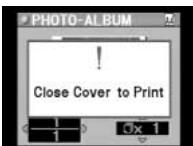
Check the following items when the printer does not operate as it should or a problem occurs during operation.

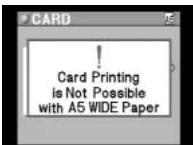
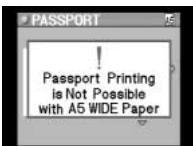
## ●When a Problem Occurs

Problem	Cause	Corrective Action
Power does not come on	<ul style="list-style-type: none"><li>• The power cord may not be plugged in.</li><li>• There may be a problem with the power outlet.</li></ul>	<ul style="list-style-type: none"><li>• Turn off the printer power and check the plug of the power cord.</li><li>• Try plugging in the power cord of another electrical appliance and check if it operates properly when plugged into that power outlet.</li></ul>
Unable to print from a card	<ul style="list-style-type: none"><li>• The inserted card may not be able to be read.</li><li>• There may be no image data on the card.</li><li>• The card may be damaged.</li></ul>	<ul style="list-style-type: none"><li>• Check if the card is inserted properly.</li><li>• Check whether the card contains image data.</li><li>• Check for soiling of the card contacts and the use of the card.</li></ul>
Unable to print from PC	<ul style="list-style-type: none"><li>• The interface cable may be disconnected.</li><li>• The specifications of the interface cable may not be correct.</li><li>• The input mode may be set incorrectly.</li><li>• The printer driver may not be installed or incorrect.</li></ul>	<ul style="list-style-type: none"><li>• Check the connection of the interface cable.</li><li>• Check whether USB cable is being used.</li><li>• Check the connection method (USB) and input mode.</li><li>• Check whether the printer driver is installed correctly. Try re-installing as necessary.</li></ul>
Unable to print correctly	<ul style="list-style-type: none"><li>• There may be something wrong with the image data.</li><li>• The ink ribbon may not be installed properly.</li><li>• The cause may be the settings for filter, color tone or paper orientation.</li><li>• The printing head may be soiled.</li></ul>	<ul style="list-style-type: none"><li>• Check the image data with a digital camera, PC, etc.</li><li>• Check the installation of the ink ribbon and ink cassette.</li><li>• Check each setting.</li><li>• Clean the printing head (refer to page 153).</li></ul>

## ●When a Message is Displayed

Message	Cause	Corrective Action
	<ul style="list-style-type: none"> <li>The inserted xD-Picture Card or PC card cannot be read.</li> </ul>	<ul style="list-style-type: none"> <li>Take out the card and re-insert it properly. Try using a different card if the pictures can still not be read.</li> </ul>
	<ul style="list-style-type: none"> <li>The card (xD-Picture Card or PC Card) has been removed while the printer was operating.</li> </ul>	<ul style="list-style-type: none"> <li>Take out the card (xD-Picture Card or PC Card) and properly re-insert it (refer to pages 19, 20).</li> </ul>
	<ul style="list-style-type: none"> <li>A card (xD-Picture Card or PC Card) has not been inserted into the printer.</li> </ul>	<ul style="list-style-type: none"> <li>Insert a card (xD-Picture Card or PC Card).</li> </ul>
	<ul style="list-style-type: none"> <li>Unable to read image data.</li> </ul>	<ul style="list-style-type: none"> <li>Try re-inserting the card correctly. If image data is still unable to be read, try using a different xD-Picture Card or PC Card.</li> </ul>
	<ul style="list-style-type: none"> <li>There is no data recorded on the inserted xD-Picture Card or PC card.</li> </ul>	<ul style="list-style-type: none"> <li>Use a xD-Picture Card or PC card that contains image data.</li> </ul>
	<ul style="list-style-type: none"> <li>Pictures have not been selected.</li> </ul>	<ul style="list-style-type: none"> <li>Perform the procedure for selecting pictures (refer to page 79).</li> </ul>

Message	Cause	Corrective Action
	<ul style="list-style-type: none"> <li>The printer cover is open.</li> </ul>	<ul style="list-style-type: none"> <li>Properly close the printer cover.</li> </ul>
	<ul style="list-style-type: none"> <li>The power may have been turned on with the cover open.</li> <li>An error has occurred.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off the power, close the cover and then turn the power back on again.</li> <li>Contact the nearest service department of Olympus.</li> </ul>
	<ul style="list-style-type: none"> <li>There is unnecessary paper remaining in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the unnecessary paper.</li> </ul>
	<ul style="list-style-type: none"> <li>The power may have been turned off during the previous printing.</li> </ul>	<ul style="list-style-type: none"> <li>Remove the paper cassette, turn off the power and then turn it back on again.</li> </ul>
	<ul style="list-style-type: none"> <li>The temperature of the thermal head is too high.</li> </ul>	<ul style="list-style-type: none"> <li>Wait 30 - 100 seconds until the thermal head cools.</li> <li>Printing resumes automatically after the thermal head has cooled.</li> </ul>
	<ul style="list-style-type: none"> <li>Paper has become jammed in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>Stop printing and remove the jammed paper.</li> </ul>

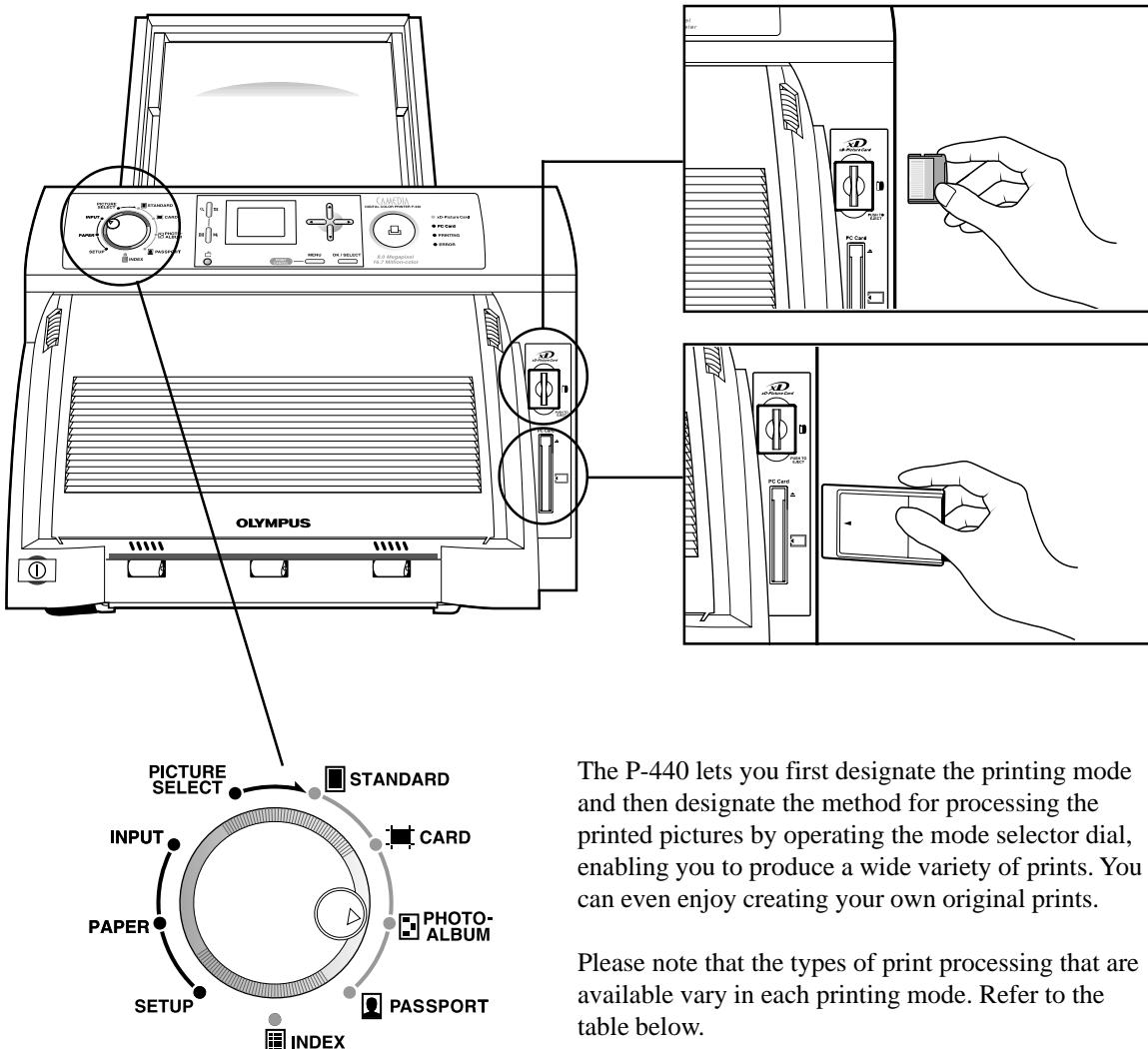
Message	Cause	Corrective Action
	<ul style="list-style-type: none"> <li>The printer is out of paper.</li> </ul>	<ul style="list-style-type: none"> <li>Add paper.</li> </ul>
	<ul style="list-style-type: none"> <li>The printer is out of ink ribbon.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the ink ribbon.</li> </ul>
	<ul style="list-style-type: none"> <li>Paper of a different size that has been set is installed in the printer.</li> </ul>	<ul style="list-style-type: none"> <li>Either install paper in the printer that matches the paper setting or change the paper setting to match the paper (refer to 78).</li> </ul>
	<ul style="list-style-type: none"> <li>Paper has been installed that is different from the paper setting, or the paper setting for card printing is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>Correct the paper setting.</li> </ul>
	<ul style="list-style-type: none"> <li>Paper has been installed that is different from the paper setting, or the paper setting for passport printing is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>Correct the paper setting.</li> </ul>
	<ul style="list-style-type: none"> <li>USB is selected for the input.</li> </ul>	<ul style="list-style-type: none"> <li>When printing directly from a card, select xD-Picture Card or PC Card for INPUT.</li> </ul>

Message	Cause	Corrective Action
	<ul style="list-style-type: none"> <li>Background may not be able to be registered depending on the size and compression rate of the number of pixels of the picture.</li> </ul>	<ul style="list-style-type: none"> <li>Register a different picture for the background.</li> </ul>
	<ul style="list-style-type: none"> <li>A background has not been registered.</li> </ul>	<ul style="list-style-type: none"> <li>Register a background.</li> </ul>

# Appendix

## ●What you can do with the P-440 Digital Color Printer

The P-440 Digital Color Printer enables you to load, select and print pictures directly from an xD-Picture Card or a PC card without using a personal computer.



The P-440 lets you first designate the printing mode and then designate the method for processing the printed pictures by operating the mode selector dial, enabling you to produce a wide variety of prints. You can even enjoy creating your own original prints.

Please note that the types of print processing that are available vary in each printing mode. Refer to the table below.

○: Available/ ×: Not available

Printing Mode	Print Processing Method								Paper		
	Layout	Date	Paper orientation	Filter	Frame	Background	Stamp	Trimming	A4	A5 wide	A6 wide
STANDARD	○	○	×	○	×	×	×	○	○	○	×
CARD	*1	○	×	○	×	×	○	○	○	×	×
PHOTO-ALBUM	○	○	○	○	○	○	○	○	○	○	×
PASSPORT*3	○	×	×	○	×	×	×	○	○	×	○
INDEX	○	*2	○	×	×	×	×	×	○	○	×

\*1 It is necessary to perform layout using special-purpose paper.

\*2 The date and time are printed automatically, and may or may not be printed depending on the size of the index.

\*3 A5 WIDE paper cannot be used for the PASSPORT printing.

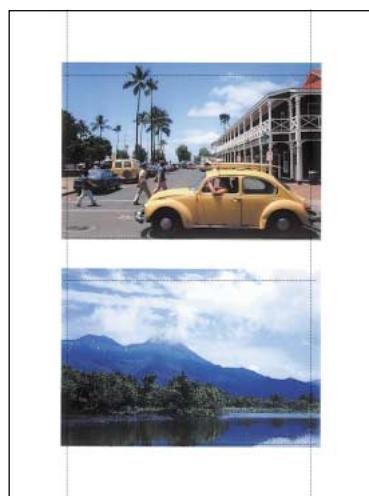
## ◆STANDARD

In this mode, you can select a single picture and print it out on an entire sheet of paper (single picture print), print out one picture or up to a maximum of 16 selected multiple pictures on an A4 sheet of paper or divide a picture up into a maximum of 6 prints on A5 wide paper. In addition, you can also print out pictures selected and set in “3. Picture Selection and Setting”. (page 95)



## ◆CARD

Use of the special-purpose card paper lets you make cards from a single picture or multiple selected pictures. (page 101)



→  
Cut out



(When using P-A4P paper)

## ◆PHOTO-ALBUM

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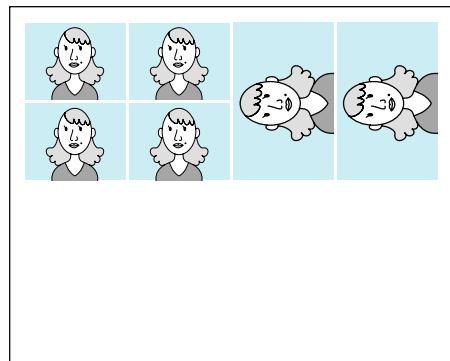
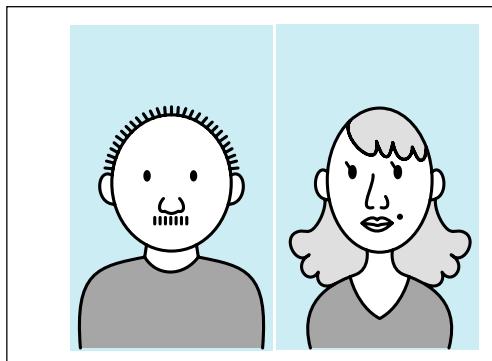
This mode is selected when you wish to print out pictures in the form of a photo album. You can also add a background or stamp to the paper or decorate pictures with a frame. (page 110)



## ◆PASSPORT

---

In this mode, you can place one picture or different pictures for printing onto one sheet of paper. This mode is useful for printing a passport photo. (page 124)



### Tip

- Paper types that can be used for PASSPORT printing are only A4 and A6 WIDE.

## ◆INDEX

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This mode is selected when you want to print out thumbnail images of all pictures recorded on a xD-Picture Card or other type of memory card. This is convenient when you have not decided which pictures you want to print or when you want to obtain a list of image data. (page 129)



### Tip

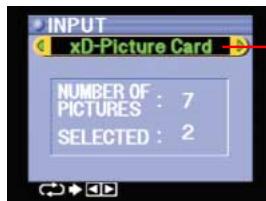
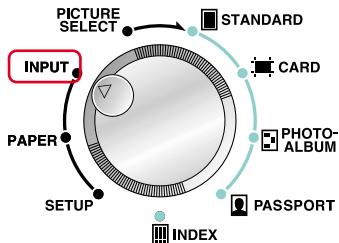
- The file name is printed on the print. Depending on the size of the index, the date and time is automatically printed as well.

## ●Explanation of the LCD Panel

You can check and select pictures or select a printing mode while viewing the LCD panel.

### <Input Selection>

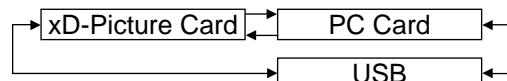
Select xD-Picture Card, PC Card or USB to designate the source from which pictures to be printed are to be read.



The current image data input method is displayed.

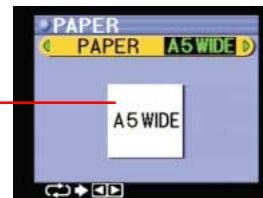
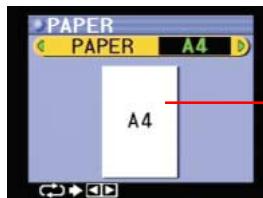
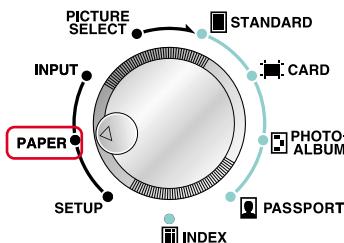


The method for input of image data is selected by pressing the left or right arrow button.



### <Paper Selection>

Select whether A4, A5 wide or A6 wide paper.



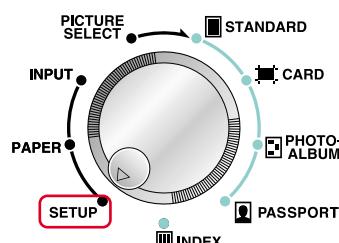
The paper size being used is displayed.



The paper size to be used is selected by pressing the left or right arrow button.

### <Setup>

You can make fine adjustments in printed pictures, register background pictures for putting backgrounds on prints, or adjust the display of a background.



The parameter that can be changed is displayed.



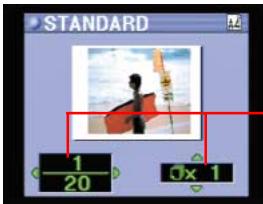
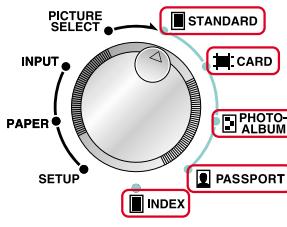
Parameters can be selected by pressing the up or down arrow button.



The detailed setting menu of the selected parameter is displayed by pressing the left or right arrow button.

## <Printing Modes>

There are five printing modes consisting of STANDARD, CARD, PHOTO-ALBUM, PASSPORT and INDEX. You can designate the orientation of pictures on the paper, print the date or arrange pictures according to a filter for each mode.



The CARD, PHOTO-ALBUM, PASSPORT and INDEX modes can be selected in addition to the STANDARD mode.

MENU

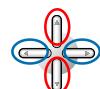
Pressing the button displays the detailed settings for each mode.



The parameter for which settings can be changed.



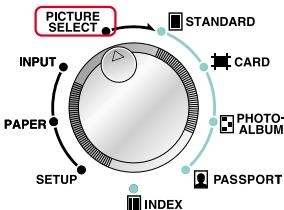
Pages are selected by pressing the left or right arrow button. The number of prints to be printed can be changed by pressing the up or down arrow button.



Settings can be changed by pressing the left or right arrow button. Settings can be selected by pressing the up or down arrow button.

## <Picture Selection>

Select pictures to be printed while previewing them on the LCD panel.



The parameter for which details are to be set is displayed when the button is pressed.

MENU



The parameter for which settings can be changed.



Press the right arrow button to advance to the next picture and the left arrow button to move back to the previous picture.



Press the down arrow button to jump to the next set of 10 pictures and the up arrow button to jump back to the previous set of 10 pictures.



The picture will be rotated 90 degrees counterclockwise each time the ROTATE button is pressed in the photo-album mode.

OK / SELECT

Pressing the button returns the display to the currently selected image.

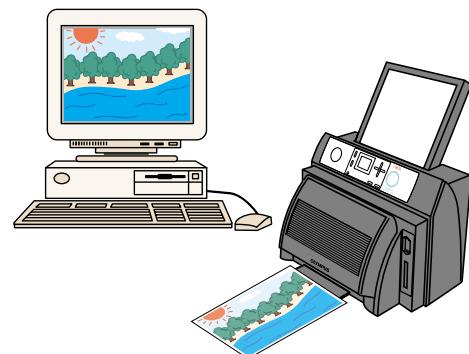
### Caution

- If the picture name contains characters other than numbers a hyphen is displayed.

## ●Introduction to Color Printing

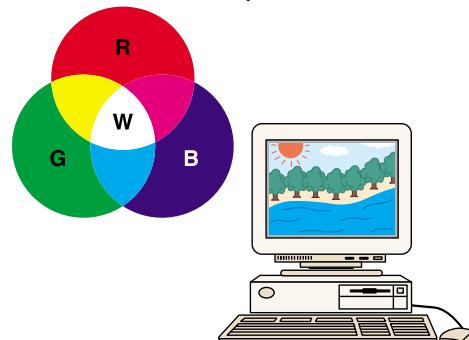
### Difference Between RGB and CMY

Have you ever tried comparing actual printed images and images displayed on a personal computer? Have you ever noticed the differences in their colors? Could this be a malfunction in the printer? The answer is probably no. This is due to different types of color generation systems used between printers and PCs.

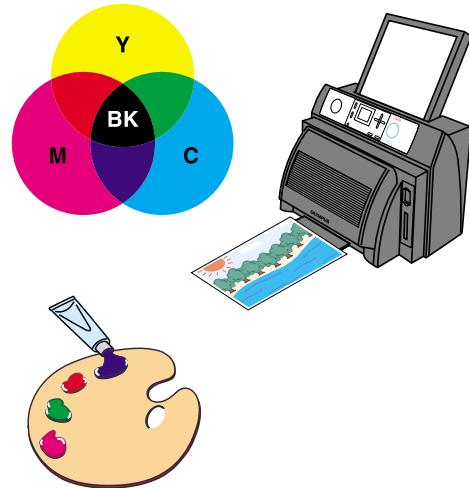


Television and Computer displays express various colors by combining three colors referred to as the three primary colors of light, namely red (R), green (G) and blue (B). Any color can be created with these three colors. In addition, mixing equal amounts of these three colors results in the color white (W).

This method is referred to as the additive color process because it represents any color by adding the primary colors together in different proportions.



The three basic colors used by printers are magenta, cyan and yellow. Any color can be printed using these three colors. Mixing equal amounts of these three colors results in the color black. This method is referred to as the subtractive color process because various colors are expressed by absorbing a portion of the color white while reflecting the remaining colors.



### Tip

- For example, if magenta (M) seems to be a little too strong during printing, this can be compensated for by slightly increasing the green (G) with an adjustment of the printer.

## ●DPOF (Digital Print Order Format)

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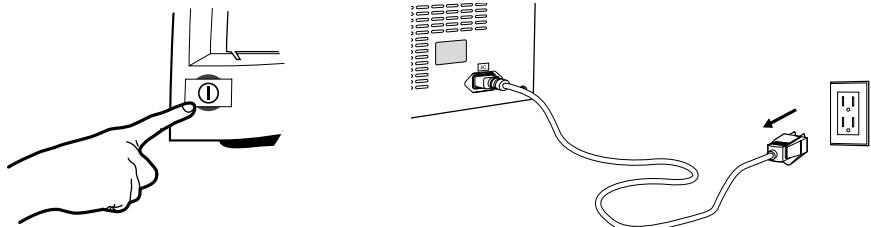
DPOF refers to a format used by DPOF enabled digital cameras to record printing information on a memory card, such as the images to be printed or the number of prints. DPOF enables those images to be printed, or the number of prints to be designated with a digital camera that supports DPOF function, thereby eliminating the need to make the settings on the printer. Therefore, using a DPOF-compatible printer makes printing easy. The P-440 is compatible with DPOF selection of images, quantity, rotation and trimming. When an xD-Picture Card or PC card is inserted into the printer, DPOF information is read from the media and image selection is performed automatically. If you do not use DPOF selection, select “CANCEL” for the “ALL SELECT” function in “Printing All Pictures on a Card” (page 94).

## ●Cleaning the Printer

Although varying according to how much the printer is used, clean the printer when it appears that printing quality has decreased significantly.

In addition, since the inside of the printer may be hot immediately after use, wait for a while after turning off the power before cleaning.

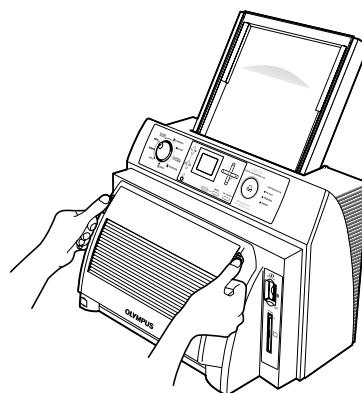
- 1 Turn off the printer power and unplug the power cord.



### Tip

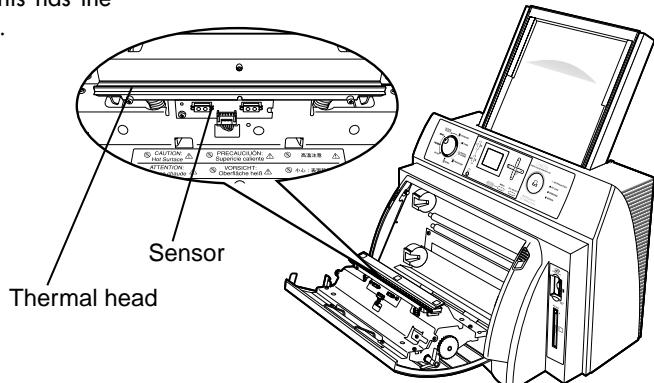
- Do not unplug the power cord with wet hands. Grasping the plug of the power cord with wet hands can lead to the risk of electrical shock. Always make sure to unplug the power cord with dry hands.

- 2 Lower the cover eject lever to open the printer cover.

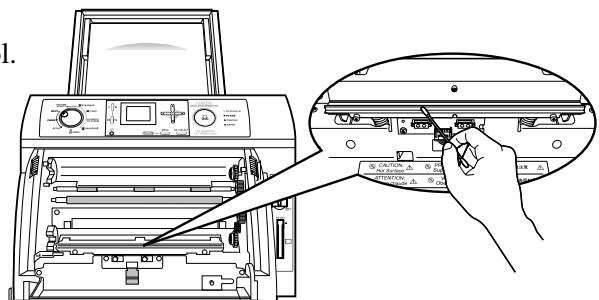


### Caution

- Never touch the thermal head. Contact with the thermal head can cause burns.
- The thermal head sensor is extremely sensitive to static electricity. Never touch the thermal head sensor since this has the risk of causing a malfunction.



**3** Gently wipe the head with a cotton swab moistened with a small amount of alcohol.



 **Caution**

- Be careful not to damage the thermal head.
- Handle alcohol with care. (Alcohol is flammable. Turn off the printer and make sure the printer and thermal head have completely cooled before cleaning with Alcohol.)
- Never touch the thermal head directly with your fingers.

**●Replacing the Ink Ribbon**

 **Tips**

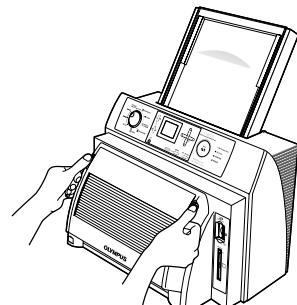
- Purchase an ink ribbon pack adequate for the paper size to be used, as shown below.

Paper types	A4-size standard paper (P-A4N)	Postcard paper (P-A4P)	L-size card paper (P-A4L)	A4-size passport paper (P-A4PASE)	A5 wide-size standard paper (P-A5N)	A6 wide-size passport paper & ribbon (P-A6WPAS)
Ink ribbon type	P-RBM, P-RBW					

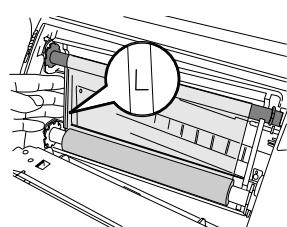
- Do not open the ink ribbon package until the time of use.
- Do not store the ink ribbon package in locations subjected to direct sunlight, locations that reach high temperature or humidity or in locations within the reach of children.
- Not all types of paper are available in all regions. For specific details, please contact your local dealers.

**1** Remove the ink cassette.

① Press the eject buttons on both side of the printer cover and open the printer cover.



② Remove the ink cassette.

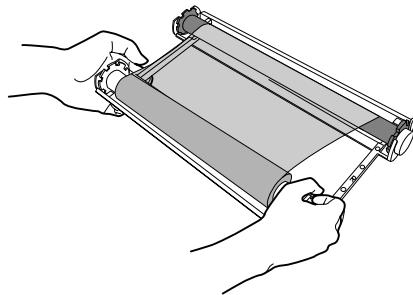


 **Caution**

- Never touch the thermal head. Contact with the thermal head can cause burns.

## 2 Remove the used ink ribbon.

Disconnect both ends of the bobbins from the ink cassette.



### tips

- The ink cassette can be used repeatedly. Make sure not to discard the ink cassette.
- Used ink ribbon (including the bobbins) are made of plastic. Dispose of these in accordance with the disposal procedures in your area.

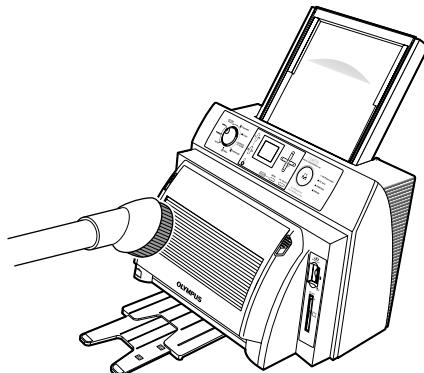
## 3 Install a new ink ribbon.

Refer to page 9 for a description of the procedure for installing the ink ribbon.

## ● To remove Dust on Vent

Dust collecting on the vent cause poor air circulation leading to a temperature rise inside the panel and result in a failure. Clean the vent every month.

Vacuum dust on the vent from the outside.  
Use a dust brush adapter to vacuum dust.



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